



«АККРЕДИТТЕУ ЖӘНЕ РЕЙТИНГТИҢ
ТӘУЕЛСІЗ АГЕНТТІГІ» КЕМ

НУ «НЕЗАВИСИМОЕ АГЕНТСТВО
АККРЕДИТАЦИИ И РЕЙТИНГА»

INDEPENDENT AGENCY FOR
ACCREDITATION AND RATING

REPORT

**on the Results of the Work of an External Expert Commission
for Assessing the Compliance with the Requirements of
Specialized Accreditation Standards of educational programs**

5B060700/6B05101-Biology

6M060700/7M05101-Biology

6M060600/7M05302-Chemistry

5B060800/6B05201-Ecology

6M091100/7M0508801-Geology and environmental management

Kostanay State University named after A. Baytursynov

Site-Visit Dates: May 20-23, 2019

*It is addressed
To accreditation
to council of IAAR*



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from May "20" to May "23", 2019.

Kostanay, 2019

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(I) LIST OF DESIGNATIONS AND REDUCTIONS

ECTS	- European Credit Transfer and Accumulation System (translation European translation system and savings of points)
KPI	- Key Performance Indicator
BD	- database
PUP	- public-private partnership
EAPATIC	- Eurasian patent information system
KKSON	- Committee on control in education and sciences
MON RK	- Ministry of Education and Science of the Republic of Kazakhstan
OP	- Educational program
KID	- Catalog of elective disciplines
MEP	- Modular educational program

(I) INTRODUCTION

According to order No. 60-19-OD of 03.05.2019. The independent agency of accreditation and rating from May 20 to May 23, 2019 the external commission of experts carried out the assessment of compliance of educational programs 5B060700/6B05101 – Biology, 6M060700/7M05101 – Biology, 6M060600/7M05302 – Chemistry, 5B060800/6B05201 – Ecology, 6M091100/7M0508801 – Geoecology and environmental management of Kostanay state university named after A. Baytursynov to standards of specialized accreditation of IAAR (of February "24", 2017 No. 10-17-OD, edition fifth).

The report of the external commission of experts (ECE) contains assessment of compliance of activity of the Kostanay state university named after A. Baytursynov within specialized accreditation to criteria of IAAR, the recommendation of EEC about further improvement of parameters of educational programs and parameters of a specialized profile.

Structure of ECE:

1. The chairman of the commission is Shunkeev Kuanyshbek Shunkeevich, ф. - м of N, professor, the Aktyubinsk regional university to them. To Zhubanova (Aktobe);

2. The foreign expert – Mgris Klavikh š (Mâris Klyavinsh), Dr.habil.chem., prof., Faculty of geography and sciences about Earth, the Latvian University, the expert of the Academic information center (AIC) (Riga, Latvia);

3. The foreign expert – Gorylev Alexander Ivanovich, Candidate of Law Sciences, the associate professor, National research N.I. Lobachevsky State University of Nizhni Novgorod (Nizhny Novgorod, the Russian Federation);

4. The expert is Nikolsky Sergey Nikolaevich, x. N, professor, Karaganda state university of E.A. Buketov (Karaganda);

5. The expert is Sarsenova Lazzat Kadirgaliyevna, to. б. N, Al-Farabi Kazakh National University (Almaty);

6. The expert is Aldabergenova Saule Salimzhanovna, the doctor of PhD, the Kazakh agrotechnical university of S. Seyfullin (Nur-Sultan);

7. The expert is Nurgazy Kuat of Shaypolla□a, of page x. N, professor, Kazakh national agricultural university (Almaty);

8. The expert is Usenbayev Altai Egemberdiyevich, the candidate of veterinary sciences, the associate professor, the Kazakh agrotechnical university of S. Seyfullin (Nur-Sultan);

9. The expert is Zhubantayeva Altyn Nurymovna, the senior teacher, the master of veterinary sciences, the West Kazakhstan innovative and technological university (Uralsk);

10. The expert is Shevyakova Tatyana Vasilyevna, филол. N, professor, Kazakh university of the international relations and world languages of Abylay of the khan (Almaty);

11. The expert is Mukhametkaliyeva Gulnar Okuskhanovna, Candidate of Philology, professor of academy, Kaynar Academy (Almaty);

12. The expert is N□ymbetova G□shat Ramazanovna, the doctor of political sciences, professor, the Kazakh national pedagogical university of a name of Abay (Almaty);

13. The expert is Abisheva Vera Tukenovna, филол. N, professor, Karaganda state university of Buketov (Karaganda);

14. The expert is Alimbekova Nurlana Baurzhanovna, m the so-called, East Kazakhstan state university of S. Amanzholov (Ust-Kamenogorsk);

15. The expert is Kalymova Kulziya Akrashevna, m the so-called, Eurasian national university of L. Gumilev (Nur-Sultan);

16. The expert is Oshakbayeva Zhuldyz Oryntay□yzy, to. б. N, associate professor, Kazakh national agricultural university (Almaty);

17. The employer is Olkinyan Lyudmila Yurevna, the head of the Corporate university JSC Pace Group of Companies, Center of training and development of personnel of Saryarkaavtoprom LLP (Kostanay);

18. The employer is Ismailova Aygul Tursynbekovna, the project manager of Chamber of

businessmen of the Kostanay region (Kostanay);

19. The student is Abultdinova Aida by Bagdatovna, the doctoral candidate 3 courses (vt. medicine), Kazakh agrotechnical university of S. Seyfullin (of Nur-Sultan);

20. The student is Idrisova Aydana Mukhamedzhankyzy, the student 2 courses (History), the Kostanay state pedagogical university of U. Sultangazin (Kostanay);

21. The student is Mikhaylyuk of Vladlen Sergeyevna, the student 2 courses (Mathematician), the Kostanay state pedagogical university of U. Sultangazin (Kostanay);

22. The student is Ahmet Zhanbota Zhanbyly kyzy, the student 2 courses (Biology), the Kostanay state pedagogical university of U. Sultangazin (Kostanay);

23. The student is Ansabayev Ruslan Ermakanovich, the student 2 courses (Agronomics), the Kostanay engineering and economic university of M. Dulatov (Kostanay);

24. The observer from the Agency is Kydyrmina Nurgul Alimovna, the head of the IAAR information and analytical project (Nur-Sultan).

(I) REPRESENTATION OF EDUCATION TO THE ORGANIZATION

Kostanay state university is formed on August 6, 1992 by the Resolution of the Cabinet of the Republic of Kazakhstan No. 662 by reorganization of the Kustanay state teacher training college of the 50 anniversary of the USSR in the university. On April 3, 1996 on the basis of the Resolution of the government of Republic of Kazakhstan No. 384 the Kustanay state university is renamed into the Kostanay state university named after Ahmet Baytursynov.

According to Article 9 of the Law of the Republic of Kazakhstan of December 9, 1993, the Decree of the President of the Republic of Kazakhstan of June 17, 1997 the transcription of the name of the city of Kostanay is changed to Kostanay. The name of the university is changed to the Kostanay state university of Ahmet Baytursynov (further - KSU of A. Baytursynov).

On February 14, 2000 according to the Resolution of the government of Republic of Kazakhstan No. 236 the structure of KSU of A. Baytursynov included the Kostanay agricultural institute, and on February 3, 2004 the Resolution of the government of the Republic of Kazakhstan No. 128 of structure of KSU of A. Baytursynov allocates the state teacher training college.

Activity of the university is carried out on the basis of the existing State license for the right of conducting educational activity (No. 12020851 of December 11, 2012).

At the university the three-level system of training of specialists is carried out: the higher education (bachelor degree), postgraduate training (magistracy and doctoral studies).

The structure of the university includes 7 faculties. Training is conducted on 33 specialties of a bachelor degree, 28 specialties of a magistracy and 17 specialties of doctoral studies.

The contingent of students of higher education institution for February 1, 2019 makes 4582 persons.

Total number of PPS the university of 458 people, from them regular – 366. Doctors of science - 29, candidates of science - 140, PhD - 16. The ostepenennost percent on the university makes 50.5%.

Following the results of 2017-2018 academic years the number of graduates of the university was 1228 people, 83% from them are employed. At the same time the national average indicator of a trudoustroyennost is 67%.

Training of students on the accredited educational programs is carried out according to the operating legislative and legal RK, normative legal acts of MAUN RK, the Strategic development plan for OP agreed with the Strategic plan of KGU for 2015-2020, with a mission, vision and the strategy of higher education institution.

KSU named after A. Baytursynov in 2014 received the certificate on institutional accreditation for a period of five years, with the registration number IA No. 0039.

In higher education institution the quality management system on the basis of MS of ISO 9001:2000 of year with delivery of certificates of conformity of Russian Register and IQNet. Association, and since October, 2009 – according to the new version of the ISO 9001:2008 MS

standard is introduced and certified.

In 2018 KSU took the 10th position in the general rating of the best versatile higher education institutions of RK of 2018 according to Independent quality assurance by training agency, and in Webometrics – 15336 position of the website of higher education institution among the universities of the world.

(I) DESCRIPTION OF THE PREVIOUS PROCEDURE OF ACCREDITATION

Educational programs 5B060700/6B05101 – Biology, 6M060700/7M05101 – Biology, 6M060600/7M05302 – Chemistry, 5B060800/6B05201 – Ecology, 6M091100/7M0508801 – the Geocology and environmental management undergo accreditation in IAAR for the first time.

(II) DESCRIPTION OF THE VISIT OF EEC

Work of VEK was carried out on the basis of the approved and in advance agreed Visit schedule of commission of experts of IAAR within specialized accreditation of the Kostanay state university of A. Baytursynov during the period from May 20 to May 23, 2019.

For the purpose of coordination of work of ECE the adjusting meeting during which powers between members of the commission were distributed took place on May 19, 2019, the schedule of a visit is specified, consent in questions of the choice of methods of examination is reached.

For obtaining objective information according to activity of the university members of VEK used such methods as visual inspection, observation, interviewing of staff of various structural divisions, teachers, students, graduates and employers, questioning of the faculty, students.

For work of ECE all conditions were created, access to all necessary information resources is organized. ECE meetings with target groups took place according to the specified visit schedule, with observance of the established period of time. From staff of the Kostanay state university named after A. Baytursynov presence of all persons specified in the visit schedule was provided.

According to requirements of the Visit schedule standards captured meetings with the rector, the vice rectors, heads of structural divisions, deans managing departments of the university, teachers, students, graduates, employers and employees from various divisions, interviewing and questioning of teachers and students. In total participated in meetings 281 persons (table 1).

Table 1. The information about the employees and students who participated in meetings with ECE IAAR:

Category of participants	Quantity
Rector	1
Vice rectors	3
Heads of structural divisions,	19
Deans of faculties	5
Managers of departments	15
Teachers	84
Students	94
Graduates	30
Employers	30

According to the visit schedule of ECE the tour on higher education institution during which experts got acquainted with a condition of material and technical resources was also conducted, visited the faculties and departments implementing the accredited educational programs, scientific library B_1_m of an Ortaly□a, the Digital Hub Parasat, the Scientific and innovative center, laboratories. In the course of work of ECE performed inspection of bases the practician (see table 2).

Table 2 – The bases the practician examined during the visit

№	OP	List of bases of the practices/organizations
1	5B060700/6B05101 – Biology, 6M060700/7M05101 – Biology	Avtodom-Kostanay LLP (service of landscaping
2	6M060600/7M05302 – Chemistry	SAPA K LLP
3	5B060800/6B05201 – Ecology, 6M091100/7M0508801 – Geocology and management of environmental management	GU Department of Ecology across the Kostanay Region of Committee of Ecology of Regulation and Control of MOOS of the Republic of Kazakhstan
		Plastokno LLP

According to the procedure of accreditation questioning of 73 teachers and 80 students was carried out.

For the purpose of confirmation of information provided in the Report on a self-assessment by external experts the work documentation of the university was requested and analysed. Along with it, experts studied the official site of higher education institution of <http://ksu.edu.kz/>.

Within the planned program of the recommendation about improvement of the accredited educational programs of the Kostanay state university named A. Baytursynov, the developed ECE following the results of examination, were presented at a meeting with the management of 23.05.2019.

(I) COMPLIANCE TO STANDARDS OF SPECIALIZED ACCREDITATION

6.1. Management of the Educational Program standard

- The higher education institution has to have the published policy of quality assurance.
- The policy of quality assurance has to reflect communication between scientific research, teaching and training.
- The higher education institution has to show quality assurance cultural development, including in OP coal mine.
- The commitment to quality assurance has to belong to any activity which is carried out by contractors and partners (outsourcing) including at realization of joint/two-degree education and the academic mobility.
- The management of EP provides transparency of development of the development plan for OP on the basis of the analysis of its functioning, real positioning of higher education institution and orientation of its activity on satisfaction of needs of the state, employers, interested persons and students.
- The management of EP shows functioning of mechanisms of formation and regular revision of the development plan for EP and monitoring of its realization, assessment of achievement of the goals of training, compliance to needs of students, employers and society, the decision-making directed to

continuous improvement of EP.

□ The management of EP has to involve representatives of groups of interested persons, including employers, students and PPS in formation of the development plan for OP.

□ The manual of EP should show identity and uniqueness of the development plan for OP, its coherence with national priorities of development and the development strategy of the organization of education.

□ The higher education institution should show accurate definition responsible for business processes within EP, unambiguous distribution of functions of personnel, differentiation of functions of collegial bodies.

□ The manual of EP should produce the evidence of transparency of management system the educational program.

□ The manual of EP should show successful functioning of an internal system of ensuring quality of OP including its design, management and monitoring, their improvement, decision-making on the basis of the facts.

□ The manual of EP should exercise risk management.

□ The manual of EP should provide participation of representatives of interested persons (employers, TS studying) as a part of collegial bodies of management of the educational program and also their representativeness at decision-making concerning management of the educational program.

□ The higher education institution should show management of innovations within EP, including the analysis and implementation of the innovation sentences.

□ The manual of EP should show proofs of openness and availability to students, TS, employers and other interested persons.

□ The manual of EP should be trained according to programs of management of education.

□ The manual of EP should aim at that the progress made since the last procedure of external quality assurance was taken into account by preparation for the following procedure.

Evidential part

Activities of the university for management of OP are carried out according to the strategic plan of KGU for 2015-2020 (protocol No. 13 is approved by a solution of the academic council of 26.12.2014), to which changes for 2016-2020 (a solution of the academic council of 28.10.2016, protocol No. 13) and for 2018-2020 (a solution of the academic council of 31.08.2017, protocol No. 12 are made) according to state programs and plans and changes in normative documents in the field of education.

The management system of EP is regulated, functions of divisions, responsible for processes, are defined, the relevant documents (provisions, structure, plans, materials and protocols of meetings of collegial bodies) are placed on the KSU Portal (http://ksu.edu.kz/portal/organizacionnopravovye_dokumenty_plan_otchety_kgu/strategiya_plany_i_otchety_kgu_im_abajtursynova/, http://ksu.edu.kz/portal/zakony_pravila_polozheniya_instrukcii/obrazovatel'naya_deyatelnost/).

The policy of quality assurance is developed 25.05.2018, published on the website and reflects communication between scientific research, teaching and training.

The system of quality assurance consists of internal and external (The provision on the System of quality assurance at 007-2019 university P) and provides: requirement analysis of customers of educational services; check of execution set in the educational program

Responsibility for development, monitoring and improvement of educational programs for the corresponding direction bear Committees on curricula and programs (II 062.029-2015). In the structure of Committees on training programs and plans according to information on the website http://ksu.edu.kz/portal/organizacionnopravovye_dokumenty_plan_otchety_kgu/materialy_uchebno_metodicheskogo_soveta/: representatives of PPS and students enter. The development plan for OP is developed for the 5-year period (2013-2017, 2018-2022). As developers of the Development plan for OP the head of the department, the Chairman of the Committee according to training programs and plans, the representative of employers (Annex 6 to the Report on the Self-assessment) are specified.

Participation of employers in management of EP is implemented by means of informal communication, participation in the enlarged meetings of department, in round tables, as a part of collegial bodies, reviewing of EP, EMCD, programs the practician, questioning. Participation of students in management of EP is implemented by means of participation in questioning, representation as a part of collegial bodies.

Advanced training courses in the Management in Education direction in volume of 72 hours were completed the department chair of ecology Yunusov G.B. and the department chair of biology and chemistry Sultangazin G.Zh. (Applications 15 Yunusova's Certificate G. B.).

The main employers for the Biology programs 5B060700/6B05101, 6M060700/7M05101 Biology, 6M060600/7M05302 Chemistry in 2014-2019 are:

- chief, deputy chief of GU "Management of Natural Resources and Regulation of Environmental Management of Akimat of the Kostanay Region" M. Shaimov, M. Syomyshev;
- director of Kostanayzelenstroy LLP T.A. Denisova;
- chief of the Kostanay branch of KAZNII of protection and quarantine of plants Oleynik A.T.;
- chief of GU "The Kostanay Regional Inspectorate on a Sortoispytaniye of Crops" B. Dosmukhamedov;
- director of the Kostanay branch JSC National Center of Examination and Certification A. Zharmanov.

Assessment of quality of training is carried out in the form of mutually visits, assessment of quality of methodical materials (manuals, electronic manuals) (The Extract application 7 from the protocol of department No. 11 of 24.12.2018). Edvayzera departments of biology and chemistry carry out the analysis of achievements of students by results of a session, VOUD (Application 8 of the Extract from the protocol of department). Departments hold meetings with employers, their questioning regarding satisfaction with quality of training of frames. The recommendations of employers, chairmen SAC are considered at departments for improvement of quality of educational process (The Extract application 9 from the protocol of department No. 8 of 18.09.2018).

. External expertize of EP is carried out by representatives of employers and experts from other higher education institutions. On EP 5v060700-Biologiya, 6m060700-Biologiya the positive expert opinion of the chief of GU "Management of natural resources and regulation of environmental management of akimat of the Kostanay region of Shaimov M., Aydarkhanova G.S. the Dr.Sci.Biol. from the Kazakh agrotechnical university of S. Seyfulin is received (The Expert opinion application 11 on OP in the direction of preparation "Biology"). External expertize of OP 6m060600-Himiya was carried out by the head of the test Center SAPA K LLP and x. N, professor of the Perm state humanitarian and pedagogical university Kozminykh of V.O. (The expert opinion application 12 on OP 6m060600-Himiya). In 2014 the procedure of specialized accreditation in HKAOKO for OP 5v060800-Ekologiya and OP 6m091100-Geoekologiya and management of environmental management is carried out. In the rating of NPP Atameken of 2018 of OP 5v060800-Ekologiya took the 6th place among 40 higher education institutions of the republic. On OP 5v060800-Ekologiya and OP 6m091100-Geoekologiya positive reviews from external experts are received (Application 13 the Review of the educational program of a magistracy of OP 6m091100-Geoekologiya).

According to regional requirements within the educational program of specialty 5v060700-Biologiya two directions are implemented: Lesovedeniye and "Landscaping", demanded in education market. Actually all contingent of students of a bachelor degree studies in the Lesovedeniye direction.

The purposes of EP 5v060800-Ekologiya and OP 6m091100-Geoecolog and environmental management meet requirement of the state for development of sustainable development, green economy, requirement of the enterprises and state agencies for ensuring effective ecological maintenance of economic activity, requirement of society as the environment as an indispensable condition of life activity of the person.

Departments make attempts on development of joint educational programs. For development of two-degree education consultations and approval of curricula, WEP of obligatory disciplines of

specialty of a magistracy of KGU, Kazakhstan and ITMO, St. Petersburg, Russia were held. The analysis is carried out on specialties "Geocology and unitary enterprise" (KSU) and "Green technologies in energy industry", "Green technologies and a resursoeffektivnost" (ITMO), April, 2017 (Yunusova G.B., Zharlygasova G.D.) of the recommendation were transferred to ITMO for discussion and approval.

At the end of the academic year at a faculty meeting execution of the development plan for EP is considered, in need of the plan corrections and additions can be made (The Extract application 10 from the protocol of department No. 6 from 18. 06. 2018). The report on efficiency and effectiveness of the development plan for OP is considered on council of Agrarian and biological faculty.

Risks for EP of department of biology and chemistry are falling of number of the contingent of students, decrease in employment of graduates, insufficient qualification of TS in the field of possession of the ICs modern scientific methods/

Analytical part

In the report on a self-assessment considerable attention is paid to the description of management processes of EP and, in general, observance of requirements of the standard is reached. At the same time ECE notes insufficiency of an analytical part of the Report and in, whole, management process of EP. Processes of monitoring of execution, the analysis of efficiency and effectiveness and decision-making are presented by the separate facts, look formal and badly give in to the analysis regarding systemacity. According to members of VEK, it is promoted by formalistic approach to development of the Development plan for EP which does not provide definition of specific indicators, criteria and mechanisms of assessment of achievement of goals for the planned 5-year period.

Participation of interested parties is regulated by the corresponding procedures, but as showed a visit, these processes are insufficiently formalized and have non-systemic character: when interviewing only 2 representatives told that they participated in questioning of employers, according to questioning only 60.3% of TS are completely satisfied with participation in adoption of management decisions. The transparency of management of EP is adequately provided with access to documents on the website and the KSU portal and a possibility of participation in work of collegial bodies of all interested persons. At the same time the commission notes that the logic of placement of information is not quite convenient for studying by external interested persons - the interconnected files (plans and reports, protocols) are posted in different sections, information is unavailable to employers and students on the made decisions (feedback coupling)

Important issue for quality management of EP is risk analysis. In the strategic plan systematization and risk analysis is carried out, the Management plan by risks of KGU of A. Baytursynov of 28.10.2016 is developed. As shown in the report on a self-assessment it is also revealed during discussions, the manual of EP defined risks and actions for decrease in their influence are taken - it is positive aspect.

The guide of the releasing departments to the accredited EP shows noticeable leadership and successfully supports close social and professional ties with regional employers and society, domestic professional community and colleagues from the neighboring countries (Russia) both for the purpose of marketing, and for the purpose of employment of graduates. The recruiting company in nearby regions of the Russian Federation is carried out. The higher education institution actively participates in GPIIR, the Serp_n — 2050 program, etc. The range of production and scientific bases, in general, allows to implement the purposes of EP and to provide conditions for forming of the declared competences of graduates. At the same time, it should be noted that the resource of employers is under-exploited effectively: potential of creation of branches of departments on production bases and development of dual training is not implemented, participation of employers depends on activity of heads, involvement of specialists to teaching is limited to separate lectures / seminars. The choice of the educational programs implemented within specialties/

Considerable efforts are made for increase in pedagogical qualification of teachers and also for support of innovative activity the person. It is promoted by also active participation of higher

education institution and also the management of EP in the TEMPUS/ERASMUS projects that allows to provide global measurement and development of EP. At the same time, possibilities of the international cooperation regarding internationalization of education and development of joint educational programs are insufficiently realized. It should be noted also that when holding an interview difficulties on professional development in the specialty, in particular on specialties "Biology" and "Chemistry" are revealed.

Strengths / the best practice

1. Communication of science, education and practice. Existence actively developed grant and the hozdogovornykh of research and scientific and laboratory base in the form of Research Center, regional production bases allows to provide the high level of scientific and practical training of bachelors and masters in the direction biology, chemistry and ecology.

2. Close connection and cooperation with regional employers and society when planning, developing and realization of EP.

Recommendations of VEK

For specialties 6M060700/7M05101 – Biology, 6M060600/7M05302 – Chemistry, 6M091100/7M0508801 – Geoecology and management of environmental management to reconsider a form of development plans for EP and the reporting under its performance regarding ensuring measurability and management on the basis of the facts, to develop indicators and criteria for evaluation of efficiency.

VEK conclusions by criteria: According to the Management of the Educational Program standard VEK notes that they from 17 criteria 2 have a strong position, 13 – satisfactory, 2 - assume improvement.

6.2. "Management of Information and Reporting" standard

The higher education institution has to provide functioning of a system of collecting, the analysis and management of information on the basis of application of modern information and communication technologies and software.

The management of EP has to show system use of the processed, adequate information for improvement of an internal system of quality assurance.

Within OP there has to be a system of the regular reporting which is reflecting all levels of structure, including assessment of effectiveness and efficiency of activity of divisions and departments, scientific research.

The higher education institution has to establish frequency, forms and methods of assessment of management of EP, activity of collegial bodies and structural divisions, the top management, implementation of scientific projects.

The higher education institution has to show definition of an order and ensuring information security, including definition of responsible persons for reliability and timeliness of the analysis of information and providing data.

An important factor is involvement of students, workers and PPS in processes of collecting and the analysis of information and also decision-making on their basis.

The management of EP has to show existence of the mechanism of communication with students, workers and other interested persons, including existence of mechanisms of resolution of conflicts.

The higher education institution has to provide measurement of degree of satisfaction of requirements of TS, personnel and students within EP and to show proofs of elimination of the found shortcomings.

The higher education institution has to estimate effectiveness and efficiency of activity, including in EP coal mine.

The information collected and analyzed by higher education institution within EP has to

consider:

- key performance indicators;
- to the loudspeaker of the contingent of the forms and types studying in a section;
- level of progress, achievement of students and assignment;
- satisfaction of students with realization of EP and quality of training in higher education

institution;

- availability of educational resources and systems of support to students;
- employment and career development of graduates.
- Students, workers and TS have to document the consent to processing of personal data.
- The management of TP has to promote all necessary information in the respective areas of

sciences.

Evidential part

Information management and the reporting at the university is provided through the official site of the university (www.ksu.edu.kz), the internal portal (<http://ksu.edu.kz/portal/>) and different information systems.

On the portal virtual receptions of the rector, vice rectors and deans of faculties, declarations, organizational and legal documents, plans and reports of the university which are timely updated are placed. Orders on the university, solutions of the Academic council of the university and council of faculty and other collegial bodies are posted on the website, electronic versions of orders and solutions of the academic council and administration, orders of dean's office are sent on departments for acquaintance on corporate network MS Outlook.

The information-analytical system "Rating" automates maintaining and accounting of execution of the individual plan of work of the teacher (<http://pps.ksu.edu.kz/>) who considers all activities, including educational, scientific and educational. Reports are filled out 2 times a year, checked by managers of departments and the rating commissions of faculties, rating Results on key indicators of PPS and departments of a cluster are considered by certifying commission at making decision on compliance of a post or lowering (according to Provision P 132.078-2016). also are available on the website (http://ksu.edu.kz/portal/rejtingovaj_ocenka_deyatelnosti_pps_kafedr_i_fakultetov/).

The program Antiplagiat complex is developed on the platform of a system of full text search Sphinx extended according to the license GNU GPL. The sheet which reflects loan level in work (MI 038-2017, MI 071.095 - 2016 is presented in the application (http://ksu.edu.kz/portal/zakony_pravila_polozeniya_instrukcii/obrazovatel'naya_deyatelnost/).

Information support and process automation of the organization and management of educational process on credit technology of training is carried out by the IC "Electronic higher education institution: Educational process" (EVUZUP), IC "Electronic HIGHER EDUCATION INSTITUTION. Office registrar", AIS "Platonus". The electronic educational journal works. Results of the academic progress of students, these certifications are regularly considered at faculty meetings (The Extract application 6 from the minutes of department No. 1 of 14.01.2019).

Integration of an information system "Electronic higher education institution is executed: Educational process" and SDO Moodle that allows to automate management of information processes.

The information system is used also for informing interested persons and ensuring their participation in management of EP as parts of the general process of management of quality of scientific and educational process.

The self-assessment of EP is carried out at the end of the academic year at the enlarged meeting of department with participation of PPS, employers. Input data for a self-assessment are reports of PPS, representatives of the organizations employers, the analysis of the elective disciplines selected by students, the analysis of progress of students, satisfactions of students with different aspects of implementation of EP, educational resources and efficiency of activity of the university; satisfactions of the organizations employers and demand of graduates in labor market; to compliance to requirements to results and purposes of EP. Students and TS participate in annual procedures of

questioning regarding satisfaction. At the same time, the mechanism of their participation in the analysis of the acquired information and decision-making on their basis is not provided, moreover - they do not receive feedback coupling by results of these questioning. At a meeting with employers only 2 persons told that they participated in questioning.

The higher education institution estimates effectiveness and efficiency of EP during the PPS annual rating, departments, faculties of KSU. Dynamics of EP rating of a cluster shows systematic work on improvement of quality of training. In 2015-16 уч. to year of specialty of a bachelor degree "Ecology" took the 11th place, "Biology" - the 15th place, on a magistracy specialty "Geoecology and unitary enterprise" - the 6th place, "Biology" - the 11th place. In 2016-17 уч. the EP rating is identified as a cumulative rating, as a result - the 3rd place at department of biology and chemistry, the 19th place at department of ecology. In 2017-18 уч. to year 1 place at department of biology and chemistry, the 13th place at department of ecology.

According to data of the Report on a self-assessment the system of informing and feedback coupling is implemented through work of collegial bodies, planned meetings of the rector with collective, with students, reception of the rector on private and office matters, planned meetings with edvayzer, curators where it is possible to discuss also the arising conflict situations are provided. For consideration of individual labor disputes it is created and the conciliation commission works.

The operating procedure with personal data is established by the Provision on protection of personal data of workers of KSU of A. Baytursynov (Item 010-2019).

Information support of educational and scientific process is carried out by scientific library B_1_m of an Ortalyq. The Reader module contains the electronic catalog, access to which is provided from each computer of the NB B_1_m of an Ortalyq Internet hall and from each computer of all reading rooms of the university. The electronic catalog contains more than 63 thousand records and contains: bibliographic descriptions of books and brochures of temporary storage; descriptions of documents on electronic media; descriptions of papers of theses. There is an electronic library numbering 5368 electronic documents of works PPS of the university. Also electronic library of full text resources in the program ABIS "SNOW LEOPARD 64", the virtual scientific library (VSL), the Kazakhstan national electronic library (ҚазНЭБ), a DB of "Tomson Reuters" and also products of Elzevir publishing house are available.

Analytical part

The academic personnel and administration pay considerable attention to information maintenance of activity of the university and EP. In general, all sections of the website and the portal look relevant and functioning that speaks about real use of information systems for management of OP. As positive and important aspect it is possible to note use of the Moodle platform for advance of technologies of the mixed training, in this direction of higher education institutions considerable efforts are made.

The most part of primary information, including the made decisions on results of collecting and the analysis, is available to interested parties taking into account the level of access and requirements of protection of personal data. However, ECE notes that it is necessary more attention it is necessary to pay information on the website in English.

Besides, the commission notes that information on different stages of management of EP is placed on different (not always obvious) pages of the portal or in different IS that complicates search and its studying for the third (interested) parties.

More attention could also be paid to information on research activity, results of researches and innovations. It is also necessary to provide necessary preparation for students on use of information resources.

Nevertheless, information resources at the university in general and in a section of the estimated EP can be characterized as rather developed, well functioning and supporting educational and research process.

Strengths / the best practice

1. The higher education institution and the manual of EP pays considerable attention to

information support of OP: the website and the portal of the university contains necessary information and completely provides functioning of a system of collecting, processing, the reporting and informing interested persons on all aspects of EP.

2. EP of specialties 6M060700/7M05101 – Biology, 6M060600/7M05302 – Chemistry, 6M091100/7M0508801 – the Geoecology and environmental management are fully provided with access to full text and reference electronic databases on the respective areas of sciences.

Recommendations of VEK

1. It is recommended to pay more attention to information on the website of the university in English, information on research activity, results of researches and innovations, especially, at the level of departments and EP.

2. Expand practice of use of electronic educational technologies (Moodle) in educational process, in particular, within blended-learning on specialties 6M060700/7M05101 – Biology, 6M060600/7M05302 – Chemistry, 6M091100/7M0508801 – Geoecology and management of environmental management.

3. Pay attention to development of competences of students of a magistracy in processing and a design of results of research (6M060700/7M05101 – Biology, 6M060600/7M05302 – Chemistry, 6M091100/7M0508801 – Geoecology and management of environmental management), for example, to include in programs of training of discipline like "Scientific writing".

VEK outputs by criteria: According to the Information Management and Reporting standard VEK notes that they from 17 criteria 2 have strong position, 14 – satisfactory, 1-assumes improvement

6.3. Development and Approval of the Educational Program standard

The higher education institution should define and document procedures of development of OP and their statement at the institutional level.

The manual of EP should provide compliance of the developed OP to the set purposes, including estimated results of training.

The manual of EP should provide existence of the developed models of the graduate of OP describing results of training and personal qualities.

The manual of EP should show conducting external examinations of OP.

The qualification received on end of EP should be accurately defined, explained and correspond to the NSK certain level.

The manual of EP should define influence of disciplines and professional the practician on forming of results of training.

An important factor is the possibility of training of students for professional certification.

The manual of EP should produce the evidence of participation of students, PPS and other stakeholders in development of EP, ensuring their quality.

The labor input of EP should be accurately defined in the Kazakhstan credits and ECTS.

The manual of EP should provide the maintenance of subject matters and results of training in training level (a bachelor degree, a magistracy, doctoral studies).

It is necessary to provide different types of activity in structure of EP corresponding to results of training.

An important factor is existence of joint EP with the foreign organizations of education.

Evidential part

All documents on EP of a cluster are available to acquaintance on KSU website of A. Baytursynov. The system of development of OP consists of the following procedures: definition of the head of the program; carrying out market researches; drawing up the working curriculum and approval at the level of the university; preparation of a set of documents SP and EMCD; reviewing

of EP by external and internal reviewers; consideration of EP on MS of faculty; solution of the Academic council. The procedure of development of curricula, modular educational programs, KED is stated in the Provision "Forming of an Educational and Methodical Complex of Specialty". The procedure of examination of EP is stated in the Provision "System of Ensuring Quality of the University" in the Development and Approval of Programs standard.

Educational programs are constructed by the modular principle and are developed according to requirements of normative documents of MAUN RK, the National and branch framework of qualifications. All modular educational programs, models of graduates of a bachelor degree are discussed and coordinated by employers, for example: chief of GU "Managements of Natural Resources and Regulation of Environmental Management of Akimat of the Kostanay Region" M. Shaimov, director of Kostanayzelenstroy LLP T.A. Denisova, director of the Kostanay branch JSC National Center of Examination and Certification A. Zharmanov, B. Dosmukhamedov, chief of GU "The Kostanay Regional Inspectorate on a Sortoispytaniye of Crops"; Oleynik A.T., chief of the Kostanay branch of KAZNII of protection and quarantine of plants; specialists of Managements of Natural Resources and Regulation of Environmental Management of Akimat of the Kostanay Region Markitan A. S., Wagner V. A.; Andryushchenko A.V., the chief specialist of department of the nature of the Kostanay local history museum, RGU Department of ecology across the Kostanay region, GU Managements of Natural Resources and Regulation of Environmental Management of Akimat of the Kostanay Region, GKKP "Kostanay Regional Hospital", Ekogeocentre LLP.

The purposes of EP of a bachelor degree and magistracy are differentiated. When training the bachelor emphasis on fundamental disciplines and acquisition of competences of the classical fields of science is placed, when training the master - on research skills and competences of the modern fields of science.

The model of the graduate is developed for each level of training separately, and presents to a position, the enterprises, labor functions, results of training (The Dublin descriptors). All models of graduates were discussed with employers and considered at a faculty meeting (Appendix 20 of the report on a self-assessment). Information is provided on the information and education portal in the section "Study" http://ksu.edu.kz/portal/uchebnyj_process/fakultety_specialnosti_kafedry_akademicheskie_stepeni. The student edvayzer during meetings, meetings explain the awarded degrees, to first-year students – on organizational week.

At implementation of the educational program specific features, needs of students are considered: when choosing elective courses; when choosing bases the practician; when determining subjects of degree projects, master theses; when choosing the head of the degree project, master thesis; at involvement of students to research work and other types of the works which are carried out at department or to the university. On each specialty not less than two educational programs relevant in labor market are developed. However, in communication by low-completeness of groups the selectivity of trajectories is practically not implemented.

Within realization of EP of all levels the university provides theoretical training and passing by students of professional practice which are regulated by through programs.

Close contact is come with leading enterprises of the city and area, it allowed to develop the educational programs for all specialties demanded in labor market. The praktiko-focused training model is developed for their realization:

- on 1-2 courses - excursions to production, educational practice, work in student's groups;
- on the 3rd course: a work practice, formation and fixing of professional skills through exit occupations on production, on branches of departments, in laboratories of higher education institution and partners;
- on the 4th course: the praktiko-focused occupations, production and externships, implementation of degree projects and implementation of results at the enterprises. Dual training in full sense is not implemented.

Bases the practician for EP 5v060700-Biologiya, 6m060700-Biologiya are:

1. GU "Management of Natural Resources and Regulation of Environmental Management of

Akimat of the Kostanasky Region":

2. GU State natural Burabay park
3. Kostanay fruit and vegetable sortoispytatelny site MCX of RK.
4. Kostanayzelenstroy LLP.
5. IP Tyslenko M. A.-Landshaftny dizayn.
6. Kostanay branch of the Kazakh scientific research institute of protection and quarantine of plants.
7. Department of the land registry and technical inspection of the real estate
8. Avtodom-Kostanay LLP (service of landscaping)
9. JSC National Center of Examination and Certification branch
10. Kostanay Scientific Research Institute of Agriculture LLP
11. High school No. 1 of Kostanay
12. High school No. 2 of Kostanay
13. High school No. 19 of Kostanay
14. High school No. 23 of Kostanay
15. Nazarbayev Intellectual School of the Physical and Mathematical Direction of Kostanay branch

Bases the practician of the studying EP 5v060800-Ekologiya, 6m091100-Geoekologiya and management of environmental management:

1. GU Department of Ecology across the Kostanay Region of Committee of Ecology of Regulation and Control of MOOS of the Republic of Kazakhstan
2. GU "Management of Natural Resources of Regulation of Environmental Management of Environmental Management of Akimat of the Kostanay Region"
3. Kazakhstan Ecological Service LLP
4. GKP "Kostanay SU"
5. Kostanayzelenstroy LLP
6. GESPOL LLP
7. Ekogeocentre LLP
8. Ekoprojekt LLP
9. RGP branch on PHV "Kazgidromet" of MERK across the Kostanay region
10. RGU "Tobol-Torgaysky Pool Inspection on Regulations of Use and Protection of Water Resources of Use and Protection of Water Resources"

Additional opportunities of training out of the main OP within courses, seminars, master classes in other organizations are implemented. Undergraduates of specialty 6M060700 – Biology and 6m060600-Himiya in November, 2018 studied at advanced training courses "Computer chemistry with elements of quantum and chemical calculations", in volume of 36 academicians of the hours spent by the Doctor of Chemistry, professor of the Perm state humanitarian and pedagogical university V.O. Kozminykh (the Certificate Appendix 23 Әбдірахман Анд.).

The management of OP pays attention to external examination of OP: 5v060800-Ekologiya it was estimated by external experts of Satybaldiyeva of G.K. KAZNAU, and Nabiyeu Zh.S. (Department of ecology across the Kostanay region) within the ESAR draft of the Erasmus program in December, 2018. In February, 2019 on OP magistracies are received Mukhamedzhanov V.S. reviews. (Department of ecology across the Kostanay region) (Appendix 25 the Review of OP 5v060800-Ekologiya).

As a part of external assessment of OP Higher education institution participates in the rating of NPP Atamaken, but does not participate in HAAP, HKAOKO ratings and so forth.

Table 3. Summary data on the rating of specialties of a bachelor degree of NPP Atameken for 2018.

№	specialties	Мест о/кол-	data	employment	questioning	assessment	General point	The highest

п / п		во уч	place	place 100	data, %	place	place 100	place	place 100	place	place 100		point
1	Ecology	6/40	17	42	83	9	22	6	15	12	30	3,47	3,77
2	Biology	4/22	20	91	69	9	41	18	82	1	1	3,0	4,14

Analytical part

Development and the statement of OP is carried out according to standard standard to the regulating documents RK, including, the requirements of accounting of loading in ECTS are fulfilled. The management of OP pays due attention to accounting of national and regional priorities and requirements of labor market, opinion of students and experts and to that documentary examples are given. All OP passed external assessment. As an example of good practice it was possible to give assessment of OP "Ecology" and "Geocology and Management of Environmental Management" foreign experts within the ERASMUS project. However, the management of the estimated OP could not prove why OP participate in the ratings which are carried out by the national accreditation agencies.

The range of bases of practice adequately provides development of necessary competences. Regular updating of the program is important and the management of OP showed existence of such practice: a number of new training courses taking into account requirements and requirements of local labor market and also by results of the analysis of reports the practician and SAC was entered. A good point is that the management of OP uses possibilities of the international cooperation with the Russian Federation for expansion of bases of practice. Attempts of development of joint programs which did not result in results yet are made.

Considering the scientific and practical capacity of higher education institution, the commission notes that realization of all three levels of training on OP 6m060600/7m05302-Himiya and opening of reception on a bachelor degree and doctoral studies would be important improvement.

As dissenting opinion, the foreign expert of VEK it is offered to pay attention to important universal world development of researches of trends and competences in sustainable development (education for the benefit of sustainable development, the program of the UN, etc.) and climate changes and to consider the possibilities of advance of "Education for the benefit of sustainable development" for inclusion training programs. In programs of studying of biology and geocology it is possible to recommend to accent more aspects of climate change (influences, adaptation, etc.).

Strengths / the best practice

Higher education institution and the management of OP accurately defined procedures for design of OP within which representatives of employers and students actively are attracted. Reviewing of OP is carried out not only domestic, but also foreign experts that is promoted by high activity of PPS in the ERASMUS/TEMPUS programs that is positive practice.

Recommendations of VEK

1. On specialties 5v060700/6v05101-Biologiya, 5v060800/6v05201-Ekologiya, 6m060700/7m05101-Biologiya, 6M060600/7m05302-Himiya, 6M091100/7M0508801 – the Geocology and management of environmental management are wider to use possibilities of the international projects, including Erasmus implemented at the university for development and start of joint educational programs or separate modules / disciplines, including with use of remote technologies.

2. To pay attention to inclusion in programs of directions 5v060700/6v05101-Biologiya, 5v060800/6v05201-Ekologiya, 6m060700/7m05101-Biologiya, 6M060600/7m05302-Himiya, 6M091100/7M0508801 – Geocology and management of environmental management of the disciplines reflecting the key universal directions of researches in the field of sustainable development (education for the benefit of sustainable development, the program of the UN, etc.), climate changes.

VEK conclusions by criteria: According to the "Development and Approval of the Educational Program" standard VEK notes that they from 12 criteria 5 have a strong position, 6 – satisfactory, 1 – assumes improvement.

6.4. Continuous Monitoring and Periodic Assessment of Educational Programs standard

- The higher education institution should carry out monitoring and periodic assessment of OP to provide achievement of the goal and to meet needs of students and societies. Results of these processes are directed to continuous improvement of OP.
- Monitoring and periodic assessment of OP should consider:
 - Contents of programs in the light of the last achievements of science for specific discipline for ensuring relevance of the taught discipline;
 - Changes of requirements of society and professional environment;
 - Loading, progress and release of students;
 - Efficiency of procedures of estimation of students;
 - Expectations, requirements and satisfaction of students;
 - Educational environment and support desks and their compliance to OP purposes.
- The higher education institution and the manual of OP should produce the evidence of participation of students, employers and other stakeholders in review of OP.
- All interested persons should be informed on any planned or taken actions concerning OP. All changes made to OP should be published.
- The manual of OP should provide review of contents and structure of OP taking into account changes of labor market, requirements of employers and a social request of society.

Evidential part

According to data of the report on a self-assessment, the analysis of materials of the website and the portal and conversations with the staff of the university educational monitoring is implemented within rating assessment of OP in higher education institution, the PPS rating of higher education institution, OP self-assessment within specialized accreditation, assessment of quality of teaching. The external assessment of OP is carried out in the VOUD forms (external assessment of educational achievements of students), specialized (program) accreditation, OP rating, obtaining the license in a Biology (doctoral studies).

Within a year internal audits by results of which, in case of existence of discrepancies, departments and dean's offices develop the adjusting and/or warning actions are booked (Application 26 Protocol No. 6 MS of ABF of 14.06.2017, Application 27 Protocol No. 4 MS of ABF of 18.04.2018).

Table 4. - Assessment of effectiveness of OP 5v060800-Ekologiya

No	years	OP rating	Rating of the head of OP
1	2015-2016	11	3
2	2016-2017	19	11
3	2017-2018	13	6

Internal examination of the MOS, monitoring of updating of OP are carried out Educational and methodical by department. Employers OP for ensuring quality of training of specialists annually approve the list and content of elective disciplines in OP conforming to requirements and expectations of employers mailing of the MOS projects for external examination from employers is conducted. According to wishes of employers, within external examination of the MOS, the maintenance of OP on elective courses is annually updated and adjusted. Participation of the employer by consideration of the MOS at faculty meetings is entered into practice.

Results of VOUD OP 5v060700-Biologiya and 5v060800-Ekologiya are considered at meetings of methodical council of faculty (protocol No. 7 of 28.11.2018, protocol No. 6 of 29.11.2017, protocol No. 7 of 23.11.2016) (http://ksu.edu.kz/portal/organizacionnopravovye_dokumenty_plan_otchety_kgu/materialy_uchebno_metodicheskogo_soveta/) and also at meetings of departments. Results of rating of NPP Atameken are analyzed, including attention is paid to employment indicators.

Table 5 - Dynamics of employment of graduates within the first year after release

№	Years	are employed	Training in a magistracy	Training on IN
1	2016	55%	15%	-
2	2017	77,7%	11,1%	-
3	2018	30%	16,6%	3%

The basis for revision of educational programs are:

1) Changes of regulatory requirements to development of educational programs. For the reporting period normative documents of MAUN RK including standard curricula and programs several times changed. In this regard committees on curricula and programs developed curricula, modular educational programs according to MAUN RK'S requirements, standard curricula, working training programs (syllabuses) according to new standard training programs were developed. After examination of the program by educational and methodical department were approved on the academic council.

2) The proposals of employers created by results of questioning or holding joint actions with the releasing departments.

Each OP has stable relations with bases of practice where students can receive practical skills in compliance professional orientation. Following the results of practical training in the organizations a response on each student on the basis of whom the department carries out the analysis of satisfaction of employers with level of training of students is made out.

Individual needs of students are considered at creation of an individual educational trajectory by means of consultations of edvayzer.

The wishes of students concerning educational process are considered at the address to the dean, the head of the department, PPS in an oral form. For improvement of the actual results of training and increase in a quality assurance of education by the University questioning of students according to quality of teaching, according to quality of training courses is carried out systematic (two times for academic year), according to the conditions created for carrying out independent work. Annually, the special structural division for the purpose of assessment of quality of teaching PPS carries out questioning "Satisfaction with quality of teaching discipline". Questioning of students showed that in general they assess educational activity of PPS positively. Level of competence of teachers of higher education institution as very high was estimated by 63.13%, high-28.32% of respondents. Students assess the maintenance of training materials, access to information technologies, quality of methodical grants, material security, equipment and completeness of library of higher education institution positively

Annually in April-May questioning of graduates of a bachelor degree and magistracy is carried out. So, graduates of specialty of 6m060600-Himiya 2018 g highly appreciated quality of OP. For development of OP they suggested to introduce in the future elective disciplines which will allow to master modern methods of the analysis and the high-tech equipment. However, as showed an interview, the resource of graduates is insufficiently used - the Association of graduates practically does not work.

PPS noted insufficiency of material and technical resources of OP 6m060600-Himiya that at the moment is eliminated with completing of laboratory of physical and chemical researches in 2019.

Updating of contents of curricula, the catalog of elective disciplines, the through program the practician and the graduate's models, was carried out in close interaction of PPS with employers, students.

For updating of maintenance of OP these questioning of employers (Appendix 28 Analysis of Questionnaires of Employers OP 5v060800-Ekologiya) are used. 92% from respondents are satisfied with quality of training of shots of OP 5v060800-Ekologiya and 6m091100-Geoekologiya and management of environmental management. At the same time, during the interview only 2 employers told that they participated in questioning. They can state the wishes at meetings, round tables, in questionnaires.

The satisfaction of employers OP 6m060600-Himiya in 2018 made 80%, PPS – 60%, graduates of 100%.

Employers, by PPS and graduates of OP 6m060600-Himiya in 2018 made the offer on introduction in educational process of discipline which content reflects modern methods of definition of substances. As a result the elective discipline "Physical and chemical methods of a research" is added to KED. Proceeding from requirement and specifics of the region, employers made recommendations of introduction to KED OP 6m060600-Himiya of disciplines in the field of chemistry of food productions. As a result in 2018-2019 уч. to year modules "Тақам Himiyasy / Food Chemistry" and "Өнеркәсіптік chemistry-tekhnologiyaly қ процесстер / Industrial chemical and technological processes" were developed (Appendix 29 the Expert opinion on OP 6m060600-Himiya).

Taking into account proposals of employers the following disciplines are entered into bachelor degree RUP 2015-2016 academic year: "Inventory and monitoring of rare and disappearing plants", "Bases of use of cultural and useful plants", "Bases of use of useful forest vegetation", "Medicinal resursovedeniye", "Wood biology", "Biometrics". In 2017-2018 academic year disciplines are entered: "Biological diversity", "Botanical and zoological nomenclature", "Forest management". In 2018-2019 academic year disciplines are entered: "Computer modeling in landscaping", "Molecular biology".

The discipline "Biological statistics" is entered into magistracy OP 6m060700-Biologiya in 2015-2016 academic year. In 2018-2019 academic year disciplines are entered: "Biochemical methods of a research", "Methodological bases of a research in biology", "Molecular and cellular mechanisms of activity of organisms", "Population genetics".

The discipline "Statistical methods in chemistry" is entered into magistracy OP 6m060600-Himiya in 2015-2016 academic year. In 2018-2019 academic year disciplines are entered: "Physical and chemical methods of a research", "Methodological bases of a research in chemistry", "Trends of modern inorganic chemistry", "Elected heads of colloidal chemistry".

Concerning OP the management informs on any taken actions the next ways:

- placement of information at information stands, the Internet portal;
- holding seminars, round tables;
- explanation at a faculty meeting;
- explanation at planned meetings with students.

For communication of the head of OP with PPS studying also WhatsApp, Instagram, etc. are used.

The classroom occupations and after-hour events held at department (The stocks "Feeding Trough", "Acquaintance to 1 Course", contribute to the development of communications between teachers and students.

According to questioning "Satisfaction of heads of a work practice with students of the university" of students 4 courses passing a work practice from February 12 to March 10, 2018 the level of theoretical training of students of 91% of cases it is estimated by the highest point, and ability to use professional skills at the solution of a specific production objective - only 77%.

Analytical part

It is obvious that the university pays due attention to monitoring of educational process, and its actions are well described, and procedures are detailed. In general, all standard standard procedures of monitoring and assessment of OP in RK are formalized and are implemented.

For improving competitiveness of OP and graduates the management of OP makes

considerable efforts for accounting of opinion of employers and requirements of regional labor market, and it, practically always, is expressed only by inclusion in the program of new disciplines. According to the commission such approach looks a little simplified, and is not always effective and reasonable. For realization of global measurement of OP and advance planning it is also possible to estimate and consider experience of development of similar training programs in other countries (the EU, the USA, Japan, etc.). In this regard, the example of success can be considered modernization of the training program on ecology with use of the ERASMUS resources.

The commission also notes that there are no examples of deeper study of contents of programs at the level of results of training, separate sections / the in disciplines. And this aspect of assessment of OP requires attention from the management of OP and obligatory development.

Important element of monitoring of educational process is employment control: in some years it is quite low therefore it is possible to recommend to improve control of employment of graduates and to make more efforts for ensuring success of students in labor market.

Strengths / Best Practices

Close cooperation with regional employers, constant monitoring of their needs, as well as taking into account the needs of society can be noted as a strong point of the EPs 5B060800 / 6B05201 – Ecology, 6M060700 / 7M05101 – Biology, 6M060600 / 7M05302 – Chemistry, 6M091100 / 7M0508801 – Geoecology and environmental management; an indirect example of this is, inter alia, the maintenance of 12 contractual topics of research.

EEC Recommendations

Improvement of monitoring and evaluation of educational programs (5B060800 / 6B05201 – Ecology, 6M060700 / 7M05101 – Biology, 6M060600 / 7M05302 – Chemistry, 6M091100 / 7M0508801 – Geoecology and environmental management) in the parts that define indicators, quantity analysis, making decisions and informing stakeholders about the results of decisions made on the basis of the analysis of such direct indicators of learning efficiency as indicators of student achievements, teachers' assessment, assessment of teaching, formation of competencies of graduates, as well as paying attention to assessing the effectiveness of assessment procedures of students.

The conclusions of the EEC upon criteria: According to the standard “Continuous monitoring and periodic evaluation of educational programs”, the EEC notes that among 10 criteria, 4 have a strong position, 6 – a satisfactory one.

6.5. Standard "Student-centered Learning, Teaching and Assessment"

- ✓ *Supervisors of the EPs should ensure the respect towards different groups of students and their needs, providing them with flexible learning opportunities.*
- ✓ *Supervisors of the EPs should ensure the use of various forms and methods of teaching and learning.*
- ✓ *An important factor is the availability of their own research in the field of teaching methods of educational disciplines of the EPs.*
- ✓ *Supervisors of the EPs should demonstrate the existence of a feedback system on the use of various teaching methods and assessment of learning outcomes.*
- ✓ *Supervisors of the EPs should demonstrate support for autonomous learners while providing training and assistance from teachers.*
- ✓ *Supervisors of the EPs should demonstrate the existence of procedures for responding to student complaints.*

- ✓ *It is necessary to ensure the consistency, transparency and objectivity of the mechanism for assessing learning outcomes for each EP, including the appeal.*
- ✓ *It is necessary to ensure the conformity of the procedures for evaluating learning outcomes for students of the EPs with the planned learning outcomes and program objectives. Evaluation criteria and methods within the framework of the EPs should be published in advance.*
- ✓ *It is necessary to determine the mechanisms for ensuring the development of learning outcomes by each graduate of the EPs and ensure the completeness of their formation.*
- ✓ *Evaluators must be proficient in modern methods of assessing learning outcomes and regularly improve their skills in this area.*

Evidential part

Taking into account the individual characteristics, needs of students is realized by the possibility of choosing elective courses; bases of practices; topics of diploma projects, master's theses; head of the diploma project/master's thesis; participation in research work and other types of work carried out at the Department or at the University. Individual characteristics of students are taken into account when they are distributed to study the disciplines of "Kazakh/Russian language", "Physical culture" (5B060700 – Biology), "Foreign languages". During the organizational week, students are tested for knowledge of languages. Language groups are formed according to their level of proficiency. Students of the specialty 6M060700 – Biology are taught in multilingual groups. In the specialties 5B060700 – Biology and 6M060700 – Biology, two EPs available on the labor market were developed, in the specialty 6M060600 – Chemistry – three ones. Within the framework of the EP 5B060800 – Ecology, the students are offered a choice of two paths: "Geoecology" and "Bioecology". Within the specialty 6M091100 – Geoecology and environmental management, a scientific and pedagogical direction is offered for the choice of two educational programs "Geoecology" and "Regional Ecology".

The procedure of registration of students for the study of disciplines is organized by the Registration Department with the involvement of deans, chair heads, advisors. Registration for academic disciplines is carried out for students of the first year in the organizational week, for students of the second and senior years of study – in accordance with the academic calendar. The University has developed the Regulation "Work adviser" P 061.1.080-2016 http://ksu.edu.kz/portal/zakony_pravila_polozheniya_instrukcii_obrazovatel'naya_deyatelnost/.

An adviser represents the academic interests of students and is involved in the preparation of all necessary information materials on the organization of the educational process, provides them to the student and assists them in the preparation and adjustment of IP. Advisors provide students with the Familiarization guidebook (http://ksu.edu.kz/files/folder_2/sprav-put/spravochnik_putevoditel_stud_na_rus_2018-19.pdf), the Code of Honor of the Student, the Code of Academic Integrity for admission to the first year.

Free access of each student to information resources of the EP and courses as well as library funds is provided. Academic and methodological complexes and other teaching materials in the language of instruction of students are placed in the electronic library, and in the system of distance learning technologies.

To enhance the activity of students, teachers introduce various innovative technologies and methods into the educational process, which contribute to the achievement of learning results and the formation of both professional and general competencies. At the Department of Biology and Chemistry in the educational process in the framework of the EP 5B060700 – Biology teachers use ICT, critical thinking technology, problem learning, game methods, project method, Case study; when teaching academic disciplines of the EP 6M060600 – Chemistry, distance learning technologies, mobile training, project method and cases (prolonged in time), ICT, TIPS are used; training in the framework of the EP 6M060700 – Biology is based on ICT, problem learning, practice-oriented learning.

As an example of classes with the use of technologies of problem and developing training the materials of associate Professor of Biology and Chemistry Dryuk O. V. on the subject "Theory and problems of physical chemistry" can be used. She develops "SMART" objectives; levels of achievement in mastering the topics of bloom's taxonomy; multi-level questions of bloom's taxonomy; mind mapping, case assignments, projects. In the classes on the subject "Chemistry" Senior lecturer of the Department of Biology and Chemistry Makhmutova Zh. S. uses educational trends in the field of ICT: smart-learning technologies, levels of achievement in the development of topics on bloom's taxonomy, multimedia.

The staff of the Department of Biology and Chemistry passed courses of creating video content of academic disciplines (Ismailova Zh. B., Makhmutova Zh. S., Abileva G. A., Orlova L. G.) (Annex 34 Certificate for Abileva G. A.). As a result, in the framework of the EP 5B060700 – Biology teachers prepared video lectures:

"Өсімдіктерің қолайсыз температуралық жағдайларға төзімділігі" (Abileva G. A.); "the Growth and development of plants" (Orlova L. G.); "Basic concepts and laws of chemistry" (Orlova L. G.) "Carbohydrates" (Ismailova Sh. B.); "Көмірсулар" (Ismailova Sh. B.); "the Vitamins" (Makhmutova Zh. S.); "Дәрумендер", (Makhmutova Zh. S.).

Teachers of the Department of Biology and Chemistry Dryuk O. V., Abileva G. A., Ruchkina G. A. carried out activities to introduce elements of blended learning into the educational process. Electronic courses on the discipline "Fundamentals of life safety" in the state and Russian languages, "Theory and problems of physical chemistry", "Selected chapters of Analytical Chemistry", "Statistical methods in Chemistry" are developed. The presence of e-courses and e-library allows teachers to use mobile training in the learning process. Distance learning technologies are used in the framework of the EP 6M060600 – Chemistry (Annex 35 Act of implementation by Dryuk O. V.).

In the educational process the following active and innovative teaching methods are used for specialties 5B060800 – Ecology and 6M091100 – Geoecology and environmental management: digital learning, elements of on-line learning, learning in cooperation, interactive lectures, blended learning with elements of IT - technologies, lecture-conversation, brainstorming, group work, problem method, critical thinking, inverted learning, storytelling technology. Mixed training and remote use of IT-technologies are planned for implementation.

The development of own and the adaptation of existing innovations, methods and training methods for the EP of specialties 5B060800 – Ecology and 6M091100 – Geoecology and environmental management is carried out by organizing the annual holding of Methodological International Conferences "Innova", where teachers share their experiences (http://www.ksu.edu.kz/education/konferencii_seminary_kruglye_stoly/nauchno-metodicheskaya_konferenciya_innova/innova_2019/).

To assess the use of innovative techniques in the departments, a mutual visit of classes is organized as part of open classes, master classes. Questions about their use are considered at meetings of departments, Methodological Councils of faculties and Educational-methodical Council of the University.

In 2017 refresher courses were held on the following topics: "Integration of subjects of educational environment in the process of formation of research competence of students" (Utebaeva B. H., Ismailova Sh. B., Makhmutova Zh. S., Sultangazina G. Zh., Abileva G. A., Orlova L. G., Braginets L. A.); "Pedagogical innovations in education" (Ismailova Sh. B., Makhmutova Zh. S.); "Professional Kazakh language, Professional Russian language" (Utebaeva B. H.); "The use of information and communication technologies in the educational process" (Braginets L. A.) (Annex 36 Certificate Braginets L. A.).

In 2018 – "Modern pedagogical technologies in higher educational institutions within the updated content of education" PC NCFT Orleu (Dryuk O. V., Pirimova E. R., Abileva G. A., Nurbekova B. Zh. (<http://ksu.edu.kz/events/201316/>)) (Annex 37 Certificate of PC NCFT Orleu). In 2019, Dryuk O. V. participated as a listener in the seminar "Student-centered learning: principles, technologies and conditions of implementation", held by the Department of Pedagogy and Psychology together with the Laboratory of Innovative Technologies.

The feedback on the use of various teaching methods is carried out through the assessment of the survey of students' satisfaction with the teaching of the disciplines, conversations with the supervisors. According to the results of the survey, Heads of Departments and Responsibles for methodological work conduct individual interviews with the teaching staff in order to correct teaching methods. In addition, there are systematic meetings of the teaching staff with students on training issues. So, in 2017-2018 academic year students of the EP 6M060600 – Chemistry expressed their wishes for the use of distance learning in the survey. As a result, the teachers Druk O. V., Ergaliyev T. M., Makhmutova Zh. S. were sent to appropriate courses of further education and have developed online courses and video lectures.

An important aspect of student-centered learning is the work of students as members of the Committees of Student Self-government; participation of students in the Councils of the faculty, the Council of research; the functioning of student organizations; the functioning of student associations. To ensure the harmonious development of students, taking into account the intellectual development and individual characteristics, the Department of Biology and Chemistry organized a scientific circle "Biovita" (47 students and 52 undergraduates).

Independent work of students is regulated by the Provision "Organization of independent work of students"

(http://ksu.edu.kz/portal/zakony_pravila_polozheniya_instrukcii/obrazovatelnaya_deyatelnost/).

Issues of mutual respect of teachers and students are regulated by the principles and ethical norms defined by the Codes of honor of teachers, students, the Code of academic integrity (http://ksu.edu.kz/portal/organizacionnopravovye_dokumenty_plan_otchety_kgu/pravoustanavlivayu_wie_i_lokalnye_dokumenty_kgu/).

The system of complaints of students is implemented at the level of the Student Administration, Student Trade Union Committee, curators/advisors, graduating Department, Dean's office, Vice-rectors and Rector, through the Rector's blog on the University website, set hours of reception of the Rector, Vice-rectors, Deans.

For the period of sessions at the University they organized the action "Clean session", created a helpline service, virtual offices "Clean session" for appeals of students on negative facts. Each faculty is documented in informational panels with reflection of the information about the work of staff and faculty positions, about helplines shared across the University and members of the posts, the email addresses of students on the composition of the Appeals Committee.

Organization and monitoring of students' achievements are defined in the Regulation "Organization and conduct of the current monitoring of progress and interim certification of students", Methodical instructions "Organization and conduct of the final certification of students" (http://ksu.edu.kz/portal/zakony_pravila_polozheniya_instrukcii/obrazovatelnaya_deyatelnost/) and complies with the regulations of the MES of RK. Criteria and methods of evaluation of all types of controls are published before the start of training in educational and methodical complexes of disciplines, working training programs (syllabus), placed in an electronic library or in the Moodle system. The objectivity of the evaluation of achievement by students of expected learning outcomes is achieved through the following mechanisms: the evaluation materials are discussed at the graduate chair; the exams are conducted in the form of computer testing, blanks testing with the help of NCT technology, exams in oral form; term papers (projects); reports on practices are accepted by the commissions. All current scores obtained in the disciplines in the semester, and positive exam scores are entered into an electronic database and are available for the student in the personal account. An appeal procedure is provided for all types of knowledge assessment.

The main forms of interim certification are: computer testing, written exam, blanks testing, oral exam, creative exam, combined form of the exam.

After each certification and session advisors prepare a report on the progress of students and undergraduates. Analysis of the academic performance of students are discussed at faculty meetings (in the 2018-2019 school year: St. No. 9 of 23.10.2018 G., St. No. 10 of 15.11.2018 g, St. No. 11 of 24.12.2018 g, St. No. 1 of 14.01.2019 G., PR No. 2 of 26.02.2019 g).

According to the results of the midterm and current control, the examination session is composed of the academic rating of the student. A high rating allows a student to get academic benefits and advantages. So, studying in the EP 5B060700 – Biology Nurbekova B. received a grant of Akim of the region.

Professional development of evaluators is carried out at training courses, seminars, trainings, participation in annual conferences, courses conducted by the Laboratory of Innovative Educational Technologies, the Department of Distance Learning Technologies of the University.

There was a training in the framework of the project ESAR, 2017 Nitra, Slovakia: Yunusova G. B., Shokusheva Z. G., Kazkenova G. T.; Czech Agricultural University, 2016: Yunusova G. B., Hasanova A. I., Kozhevnikov S. K., Zharlygasova G. D.; Vienna, Australia, 2017: Yunusova G. B., Shepelev M. A., Chekhova T. I.; KazNAU, Almaty 2018: Yunusova G. B., Kazkenova G. T., Shepelev M. A. The seminar in KSU ODOT "Creating interactive exercises in the program HotPotatoes and placing them in Moodle, 2017: Shokusheva Z. G., Shepelev M. A. The seminar "Designing a test survey in Moodle", "Bases of operation in the system of distance learning in Moodle. Introductory course" and "Fundamentals of designing a distance course in the distance learning system Moodle" ODOT 2018: Shepelev M. A.

Analytical part

Taking into account the needs and individual characteristics of students is provided in the standard form, but due to the small contingent (especially for the EP 5B060700 – Biology) it is not possible in practice to implement the selectivity of trajectories and the formation of groups based on individual characteristics.

In general, much attention is paid to teaching staff and the introduction of a variety of forms and methods of education, including the use of digital technologies, which is a positive practice. However, the effectiveness of these technologies is evaluated only at the level of student satisfaction in the framework of routine annual surveys and by mutual visiting of classes by the teaching staff. In this regard, the management of the EP should take into account the need to develop a system for evaluating the effectiveness of new teaching methods in terms of improving learning and achieving outcomes, i.e. the development of research in education. The University has a laboratory of Innovative Educational Technologies, which could take on this function.

The evaluation system is implemented in a standard format, including evaluation format and forms, appeal procedures and summer semester. The electronic journal and the practice of pre-publication of evaluation requirements and criteria make a significant contribution to the transparency and objectivity of the evaluation system. It is also positive that the University demonstrates commitment to academic integrity and implements the "Clean session" program. Training of the teaching staff involved in the assessment procedures is carried out, but the facts indicate a lack of consistency of this process. Supervisors of the EP should pay attention to the fact that the range of used forms of final control is limited to computer and blanks testing, oral examination; course works (projects), reports on practices and this does not fully ensure the conformity of the assessment procedures with the planned learning outcomes, taking into account their typology (for example, assessment of practical skills). This direction should be further developed.

Strengths/best practices

The University administration and supervisors of the EPs 5B060800/6B05201 – Ecology, 6M060700/7M05101 – Biology, 6M060600/ 7M05302 – Chemistry 6M091100/7M0508801 – Geocology and management of environmental management has made considerable efforts to ensure diversity and flexibility of the educational context within the curriculum and through extracurricular activities.

The recommendations of the EEC

In order to strengthen the innovative educational activities more attention should be paid to the development of research to assess the effectiveness of the implemented technologies and teaching methods.

Conclusions of the EEC on the criteria: According to the standard "Student-centered learning, teaching and performance assessment", the EEC notes that among 10 criteria 4 have a strong position, 5 – satisfactory, 1 – suggests improvement.

6.6. Standard "Students»

- ✓ *The University should demonstrate the policy of formation of the contingent of students in the context of the EPs from admission to graduation and ensure transparency of its procedures. The procedures governing the life cycle of students (from admission to graduation) should be defined, approved and published.*
- ✓ *The supervisors of the EPs should demonstrate the special adaptation programs and support for new and international students.*
- ✓ *The University should demonstrate the conformity of the actions of the Lisbon Convention on recognition.*
- ✓ *The University should cooperate with other educational institutions and national centres of the "European Network of National Information Centres for Academic Recognition and Mobility/National Academic Information Centres for Recognition" ENIC/NARIC to ensure comparable recognition of qualifications.*
- ✓ *The supervisors of the EPs should demonstrate the existence and application of a mechanism to recognize the results of academic mobility of students, as well as the results of additional, formal and non-formal education.*
- ✓ *The University should provide an opportunity for external and internal mobility of students of the EPs, as well as assist them in obtaining external grants for training.*
- ✓ *The supervisors of the EPs should make the maximum of efforts to provide students with places of practice, to promote employment of graduates, to maintain communication with them.*
- ✓ *The University should provide graduates with documents confirming their qualifications, including achieved learning outcomes, as well as the context, content and status of the education received and evidence of its completion.*
- ✓ *An important factor is the monitoring of employment and professional activity of graduates of the EPs.*
- ✓ *The supervisors of the EPs should actively encourage students to self-education and development outside the main program (extracurricular activities).*
- ✓ *An important factor is the existence of Alumni Association.*
- ✓ *An important factor is the availability of a support mechanism for gifted students.*

The Evidential part

The contingent of students is formed in accordance with “Standard Rules of Reception of Training in the Organizations of Education implementing Educational programs of Higher and Postgraduate Education” and “Standard of the KSU named after A. Baitursynov – Managing the Selection Process of Applicants” SO 076.073-2016. The dynamics of the contingent is shown in table 6.

Table 6. – The contingent of students of accredited EPs

№ №	Accredited EPs		2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
11	5B060700/6B05101 – Biology	Total	79	70	62	54	48
		Grant/ agreement	16/63	14/56	10/52	7/47	16/32
		Kaz/Russ	25/54	19/51	16/46	16/38	12/36
22	6M060700/7M05101 – Biology	Total	11	7	6	4	23
		Grant/ agreement	9/2	7/-	5/1	2/2	22/1
		Kaz/Russ	-/11	-/7	-/6	-/4	-/23
33	6M060600/7M05302 – Chemistry	Total	4	6	6	8	30
		Grant/ agreement	3/1	5/1	4/2	6/2	30/-
		Kaz/Russ	-/4	-/6	-/6	-/8	-/30
44	5B060800/6B05201 – Ecology	Total	88	86	78	77	69
		Grant/ agreement	8/80	8/78	6/72	14/63	31/38
		Kaz/Russ	36/52	30/56	28/50	6/51	21/48
55	6M091100/7M05088 01 – Geoecology and environmental management	Total	9	6	5	4	6
		Grant/ agreement	9/-	5/1	3/2	2/2	5/1
		Kaz/Russ	-/9	-/6	-/5	-/4	-/6

In order to form a contingent of students, information on educational services is provided: advertising (regional television, radio, press, specialized literature containing information about the University, information leaflets, booklets); direct marketing (invitation cards for graduates of schools, colleges for the "Open day" and other events where potential consumers can get acquainted with the specialties, University life); public relations (media coverage of the activities, events and activities of the University); personal agitation (organization of speeches, conferences of University staff to the target audience, meetings with the heads of various enterprises, institutions, firms). In educational institutions teachers of the Department hold meetings, round tables, seminars, conferences. So, in 2018, the teachers of the Department of Biology and Chemistry visited the schools of the city: School-gymnasium №18 (Orlova L. G.), school №17 (Pirimova E. R.), No. 20 (Utebaeva B. H.), No. 23 (Ismailova Sh. B.), No. 15 (Nurbekova B. Zh.), in Zatonobsk village of Kostanay district: secondary school №2, RSPC "Daryn Kostanay" (Ergaliyev T. M.).

In the KSU named after A. Baitursynov they developed and approved the Regulation "Organization of educational process on credit technology" (order of the Rector of 28.09.2017, № 24 OD), which regulates the requirements for the following processes: planning and organization of the educational

process, registration of students in the academic disciplines and preparation of an individual curriculum, monitoring and evaluation of educational achievements of students, planning and organization of the educational process in the summer semester, expulsion, relocation and readmission of students, the provision of academic leave, re-training, and also features of the organization of educational process and control of achievements of students of an extramural form of training. On the website of the University there are standard rules of relocation, readmission and granting of academic leave in A. Baitursynov KSU. (PR 065-2018 Rules. Relocation and readmission in Kostanay state University named after A. Baitursynov, PR 064-2018 Rules. Providing academic leave in Kostanay state University named after A. Baitursynov).

Before the beginning of the academic year, the University holds an organizational week for the 1-st year students. According to the schedule, students get acquainted with the University, visit the Museum, scientific library, etc. (Annex 38 Schedule of the organizational week). The Laboratory of Practical Psychology and Teachers of the Department of Psychology and Pedagogy conducts trainings on the topics: "Conflict Management", "Formation of students' positive attitude to life", "Group Cohesion", "Adaptation of freshmen", individual psychological consultations of students. All students of the University are provided with a Guide-book in the state and Russian languages at the beginning of the first year.

Since 2011, the University has a Regulation (061.1.034-2016. Regulation. Academic mobility of students. Credit transfer by ECTS type). Recognition of previous learning outcomes and qualifications for admission to the University programs of higher and postgraduate education is based on the Standard of A. Baitursynov KSU – Management of the selection process of applicants ES 076.073-2016.

External academic mobility of students of the Department of Biology and Chemistry is carried due to the program of AM MES of RK, own funds of students.

Implementation of external academic mobility is provided by each of the 130 partner agreements of A. Baitursynov KSU with foreign universities, such as University of Lodz (Poland), University of Ostrava (Czech Republic), Lithuanian University of health Sciences, University named after A. Stulginskis (Lithuania) and other partner Universities, with which contracts on internal academic mobility are concluded: West Kazakhstan Agrarian and Technical University named after Zhangir Khan, Kazakh Agrotechnical University named after S. Seifullin, Shakarim State University (Semey), Kostanai State Pedagogical University named after S. Sultangazin, Pavlodar State University named after S. Toraigyrov, Kazakh National University named after al Farabi, Kazakh National Agrarian University, Arkalyk State Pedagogical University named after I. Altynsarin.

The University of Lodz (Poland) is a stable partner for external academic mobility within the EP "6M060600 – Chemistry" for the last three years.

Each student can participate in internal academic mobility programs if there is the GPA at least 3.0, having a positive characteristic, signed by the head of the Department and the Dean of the faculty, as well as permission received from the partner University for training on internal academic mobility.

Academic mobility is implemented within the programs and projects of the MES of RK and Erasmus+ and is regulated by the relevant internal regulatory documents (P 061.1.034-2016. Regulation. Academic mobility of students. Credit transfer by ECTS type), which determine the procedures for informing, competitive selection and support of students.

The outgoing academic mobility of students included 4 people: 2 – in the specialty 6M060600/7M05302 – Chemistry (2017 and 2018), 1 – in the specialty 5B060800/ 6B05201 – Ecology (2015) and 1 – in the specialty 6M091100/7M0508801 – Geoecology and environmental management (2017). All students went to neighboring countries at the expense of MES of RK.

In the accounting period there were no students from non-CIS states, from CIS countries – 1 (5B060800/6B05201 – Ecology).

Academic mobility of students in the EP 5B060700 – Biology in 2017 was carried out within the framework of interuniversity cooperation agreements, exchange programs between RSE on REM "Kostanay state University named after A. Baitursynov" and FSBEI HE "Ural State Forestry University". The Department of Environment and Natural Resources of the Ural State Forestry

University organized the joint educational practice of students of the specialty 5B060700 – Biology of A. Baitursynov Kostanay State University and USFTU students of the specialty "Ecology and nature management". Thus, in order to implement external academic mobility, the 1-st year students of the specialty 5B060700 – Biology – Omarova Zh., Ramazanova A., Tokpanova D., Kutinskaya A., Alibekova G. were sent to the training practice in the Ural forestry University (Ekaterinburg), Russia in 2015.

Undergraduates in the EP 6M060600 – Chemistry Saken A. (2017), Simanchuk E. (2018) studied in the framework of academic mobility at the University of Lodz, Poland (Annex 39 Transcript Saken A.). In December 2017, the master's student of the specialty 6M060700 – Biology Kachina V. took part in the International Winter School-2017, organized by the Kazakh National Agrarian University. As part of the development of internal academic mobility, students of the 2-nd year of the specialty 5B060700 – Biology Omarova Zh. and Ten S. were sent to study at Karaganda State University named after E. A. Buketov in the second half of 2014-2015 academic year. In May 2018, the Department of Biology and Chemistry of A. Baitursynov Kostanay State University held scientific training of Master student Seisenbekova A. G. in specialty 6M060700 – Biology of the State University named after Shakarim in Semey.

The Department of Ecology actively collaborates in internal mobility with KazATU named after Seifullin, Astana. In 2016-2017 in the KSU 1 student from KazATU was trained in the specialty 5B060800 – Ecology, in 2018-2019 the 3-rd year student Momotenko S. studied at Seifullin KazATU. The 1-st year students Pushkarev R., Agaeva A. were trained at the international summer school "Forest sector in Green economy" on 11-23 June 2018 on the basis of Seifullin KazATU. They have certificates for 2 credits. For active work they were encouraged with letters of thanks of the Rector of Seifullin KazATU.

Within the framework of external academic mobility the student of the specialty 5B060800 – Ecology Nikiforova E. studied at the University of Lodz (Poland) in 2015-2016 academic year. The master's student in the EP 6M091100 – Geoecology and environmental management Pichugin V. S. was trained in 2017-2018 academic year at the University of Ostrava (Czech Republic). In 2012-2014, within the framework of the TEMPUS – CIBELES PROJECT, a convergent plan was adopted, within the framework of which the master's student Zhiembay S. visited the Issyk-Kul State University named after Kasym Tynystanov in Karakol (Kyrgyzstan) in 2015. Pichugin V. S., the 1-st year master's student, went for scientific training to a foreign university, OmSAU, in June 2017. He collected material for dissertation research, held consultations with University teachers – specialists on the topic of research. In the 2015-2018 academic years 1 international student from Uzbekistan studied in the KSU. In 2017, 2 undergraduates of the 2-nd year left for scientific and pedagogical training in Russia (Omsk), Kazakhstan (Astana), where they collected material for their dissertation research, held consultations with teachers of universities – specialists on the topic of the research.

The Department of Vocational Guidance and Professional Development contributes to the employment of students (PP 113-2016. Regulation. Department of Vocational Guidance and Professional Development). Monitoring of the employed graduates is held according to the official sources: NAO, a Branch of Public Corporation "Government for citizens" in Kostanay region (No. incoming 01-11/16 from 08.01.2019 year blank number 000106, acting Director Sapanov S.) and MES of RK DVPO (ex.14-5/67 of January 22, 2019, acting Director Ismagulov S.). The primary mechanism of monitoring of professional activity of graduates are the data from SСPP, proof of employment from the place of work. Responsible for the employment prepares information, lists of representatives, employers, organizations, enterprises, joint stock companies, LLPs, firms, on the specialties and qualifications, prepares a summary of the graduate for the submission to the job fair. At the Department of graduates students are introduced to the applications for vacancies from employers. Responsible for the employment assists in employment and further work on the organization and conduct of job fairs. The main reason for the lack of employment of graduates of specialties 6M060700 – Biology, 6M060600 – Chemistry is masters' leave for childcare.

The University holds events to prepare students for professional certification. As an example there is the opportunity to obtain a certificate of drip irrigation installer as a result of cooperation with JSC

"Necklace of green practices" (specialty "Ecology"). Graduates can receive a European diploma Supplement, which is issued in accordance with the recommendations and standards of the European Commission, the Council of Europe and UNESCO-SEPES and written in English on individual request. The application consists of 8 mandatory items in English/Kazakh/ Russian.

Table 7 – Employment of graduates in the programs being accredited by

# №	EP	2015-2016			2016-2017			2017-2018		
		Total number of graduates	Is employed	%	Total number of graduates	Is employed	%	Total number of graduates	Is employed	%
Bachelor's programme										
1	Biology	12	10	83,3	16	14	88	15	10	67
Master's programme										
3	6M060700 Biology	4	3	75	2	2	100	5	4	80
4	6M060600 Chemistry	4	3	75	2	1	50	4	3	75

As part of the implementation of educational programs at all levels the University also provides students with professional practice. The organization of professional practices at the University is regulated by the normative and reference document: Regulation. "Professional practice of students" P 062.097-2016

http://ksu.edu.kz/portal/zakony_pravila_polozheniya_instrukcii/obrazovatel'naya_deyatelnost/.

The Department of Biology and Chemistry has two branches: State Institution "Management of Natural Resources and Environmental Management of the Akimat of the Kostanai Region", LLP "Kostanay Zelenstroy" (Appendix 40 Agreement on the organization of the branch of the department No. 248).

The Department of Ecology has 2 branches – Kostanai Research Institute of Agriculture, LLP "Plast-Window". Classes are held here in the disciplines "Soil Science", "Waste Management", "Industrial Ecology", "Agroecology".

Annually the University holds a job fair. 02/15/2019 a visiting Round Table was held.

The University provides conditions for study and research for students of specialties 5B060700 – Biology, 6M060700 – Biology, 6M060600 – Chemistry which are conducted under the supervision of the teaching staff of the chair. The results of the implementation of SSW and MSW are publications, acts of implementation, diplomas and diplomas of olympiads and competitions. Students and undergraduates of the Department of Biology and Chemistry participate in the implementation of projects with grant funding.

The circle "BIOVITA" of the Department of Biology and Chemistry is functioning. In the international scientific Olympiad in Chemistry for undergraduates (Russia, Kazan, 2018), winners and laureates were: the 2-nd place – Nugumanova K., Tulubaev N., the 3-rd place – Zhanbatyrova S., Mynbaeva Sh., laureates – Amanzhol B., Saparov M., Ermetova B. V. (Appendix 41 Diploma of the International Chemistry Olympiad, Tulubaeva N.). In the republican competition of SSW of MES of RK, the student of the specialty 5B060700 – Biology Kylyshbay T. took the 3-rd place, Aslbekova D. won the republican contest of SSW "Scientists of the Future" of the Foundation for the First President (2017) (Appendix 42 Diploma of the SSW of MES RK, Kylyshbay T.).

Over the past three years, the participation of students in scientific events at various levels has increased, including the participation in virtual intellectual competitions.

Table 8 – The results of research and development studies of students of specialties 5B060700 – Biology, 6M060700 – Biology, 6M060600 – Chemistry

Types of SSW и MSW	2015-2016	2016-2017	2017-2018
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Olympiads and contests, number of prizes			
International	7	7	23
Republican, MES of RK	1	1	1
Republican	-	2	-
Regional	6		
Total	14	10	24
Publications, number of papers			
Publications with Impact factor	1	-	-
Scientific editions recommended by CCSES of MES of RK	3	6	7
Scientific publications, RK	-	3	1
Foreign scientific publications	-	-	3
Conference proceedings:			
International	5	2	3
International, RK	11	14	9
Republican	-	2	-
Regional, provincial	-	1	2
Total	22	28	25
Implementation of research			
Implementation Acts	8	7	9
Participation in research projects with grant financing of the Ministry of Education and Science of the Republic of Kazakhstan, number of students			
5B060700 – Biology	6	3	5
6M060700 – Biology	2	1	2
6M060600 – Chemistry	-	1	1
Total	8	4	8

Students and undergraduates have the opportunity to participate in social, scientific, educational events of a republican, regional, city and university scale, in the public and sports sphere. The support system includes consultations with teachers about the individual work program, about the subjects studied, teachers-advisers supervise the adaptation process of students who entered the KSU, conduct curator hours that are aimed at supporting, helping and consulting in mastering the features of credit technology, training features in higher education.

With the aim of self-realization of students and the development of student corporate culture, the University created the Center for the Development of Youth Initiatives. The comprehensive and harmonious development of students, their self-improvement and creative self-realization is facilitated by the activities of youth student organizations: Branch of YC Zhas Otan; Youth Movement "Мәңгілік Ел"; Club "Жайдарман / KVN KSU"; Debate club "Ахмет ұрпақтары"; Intellectual club "Sparta"; Club of family values "Алтын босаға"; Charity Club "Artemis"; Student Small Assembly of the People of Kazakhstan; Student press service of the KSU; Student Theater "Шаңырақ". Extra-curricular development of students is also provided by the studio "Өнер", Student Theater "Шаңырақ", a stadium, a gym, wrestling gym and gymnasiums, gyms for special medical group classes, and a ski base. The Student Press Service of the KSU is functioning. Gifted students are identified through the work of student self-government, through olympiads, contests and semester performance results per semester, through the work of the Biovita circle, engaging in scientific work, participating in and submitting applications for various competitions.

In 2015, students of the Department of Ecology participated in the winter school of the Karaganda Economic Institute "Green Business" during the holidays, in 2017 – KazNAU "Green Economy", in 2018 – the summer school of KazATU "Forest Sector – Green Economy", where they received certificates for training indicating grade points. During the 20 Green Days of Eco-Challenge at the Embassy of America in Kazakhstan, 2016, students learned water conservation skills.

Table 9 – The number of students of the Department of Ecology participating in sports sections and circles

Names	2015-2016	2016-2017	2017-2018	2018- 2019
Studio «Өнер»	1	1	-	1
KVN University team	-	-	-	2
Debate Club «Ахметұрпақтары»	-	-	-	1
Sport sections	4	1	3	4
TOTAL:	5	6	3	6

Students of the specialty 5B060800 – Ecology participated as volunteers in the actions of the social regional MSW project (2015-2016, 2017-2018), in charity events, a citywide voluntary Saturday work to clean up the banks of the Tobol River, 2016, social. MSW project, in 2018 in 3 charity events.

Table 10 – The number of students of the department participating in charity events and environmental events

Activities	2015-2016	2016-2017	2017-2018
MSW regional social project	11	25	19
Environmental campaigns	21	-	30
Citywide voluntary Saturday work on clearing the banks of the Tobol River	25	20	30
Charity events in orphanages and boarding schools	17	20	12
Social MSW project	15	30	20

Table 11 – Student participation in summer and winter schools on environmental topics

Activities	2016-2017	2017-2018
Winter school of Karaganda Economic Institute "Green business"	5	-
Kaz NAU "Green Economy"	25	30
Summer school of KazATU "Forestry sector – green economy"		2
Eco Challenge of the Embassy of America in Kazakhstan “20 Green Days”	7	-
Obtaining skills for water conservation in the region	30	5

Gifted students of the Department of Ecology are identified through the work of student self-government, through involvement in scientific work through SSS. So, in 2015, the student Kim V. was delegated to Sweden, in 2018, the 2-nd year student Aimuhambetova Karina was delegated to the Student Forum as a representative of the KSU named after A. Baitursynov. The 3-rd-year students of the specialty 5B060800 – Ecology Kiryutkina A., Nurpeisova A., undergraduate Beishov R. were included in the working group of the scientific project of the grant of the Ministry of Education and Science of the Republic of Kazakhstan in 2015-2017. The student Taishibay S. made observations on the project of the Association of Biodiversity of Kazakhstan (ACBK) “Monitoring of wintering waterfowl of the Kostanay region”, in winter 2017.

The main forms of incentives are: accounting for the results obtained in the process of performing scientific work (prizes in the annual competition of scientific projects, diplomas for participation in the annual Republican conference "Baitursynov Readings", etc.); nomination of the most gifted students for state scientific and personal scholarships, scholarships established by various

organizations and funds, etc. ; presentation of the best student work at contests, exhibitions and other organizational events involving the award of winners; recommendations for training or internships in leading educational and scientific centers under the Bolashak program. The curators of the groups, students' email, the University website inform about student support programs.

A discount of 25% of the cost of training was provided to students of the specialty 5B060700 – Biology: Kutinsky O., Esimseyt A. for great achievements in science, culture and sports at the national and international levels. The presidential scholarship was awarded to students of the specialty 5B060700 – Biology: Nurbekova B., Tapaeva M., Asylbekova D., Nysanbaeva G. Undergraduates of the specialty 6M060700 – Biology Kolesnikov N. and Zhakupova A. got a grant for success in studies in the 2017-2018 academic year and in the 2018-2019 academic year respectively. Since 2011, A. Baitursynov KSU has created the Association of University Graduates and Trustees (<http://www.ksu.edu.kz/partnership/alumni/>) to create multilateral long-term and strong ties between the University, its graduates and trustees. In June 2012, the first Forum of the Association of Alumni and Trustees of the KSU named after A. Baitursynov was held. The Alumni Association takes an active part in the development of the EP cluster. So, graduates of 2018 of the specialty 6M060600 – Chemistry Kanatchina A. and Abusahit M. conducted field classes for second-year undergraduates in the discipline "Chemical analysis of environmental objects" on the topics "Sampling", "Analysis of biological materials". Graduates take part in the discussion of the development plan of educational programs, make comments on the content of academic disciplines.

The number of nonresident students is 2128, of which 1745 are in need of a dormitory.

For non-resident students, there are two student houses (SH No. 1, Pushkin St. 138; SH No. 2, Abay St. 32), in which 720 beds are provided for according to the passport. However, the number of students in need of a dormitory exceeds the availability of beds, therefore, in fact, 1000-1010 students live in student houses. Dormitory provision is 57%. The University continued the systematic work on the construction of a new hostel. So they ordered and developed an adjustment of design estimates for the construction of a 9-storey hostel for 500 people at 32/1, Abay ave., Kostanay. A draft design of a 9-storey dormitory for 500 people was developed and approved. Thus, the KSU named after A. Baitursynov has a ready-made project for concluding an agreement with JSC "Financial Center" or building a hostel in the framework of SPP in the light of five initiatives of the President of the Republic of Kazakhstan aimed at social modernization.

Student House No. 1 is a 5-storey sectional dormitory with 160 living rooms and 400 beds. To prepare for training sessions there is a reading room, for educational activities there is a relaxation room with a TV set, which provides viewing of television programs in free time. Social conditions are the following: 9 domestic rooms (26 electric stoves, 9 kitchen tables); 1 female shower room for 7 cabins; 1 male – for 6 cabins; 1 insulator; laundry room – 7 washing machines; Ironing room – 3 ironing boards and 4 irons. There is a dentist office in the Student House.

Student House No. 2 has 120 living rooms with 320 beds. To prepare for training sessions, there is one reading room on the ground floor and two rooms for self-study on the 4-th and 5-th floors, and a recreation room for educational events. In the SH there are 2 TV sets – in the hall of the first floor and in the relaxation room. Social conditions are the following: 9 domestic rooms (26 electric stoves, 24 kitchen tables); 1 female shower room for 8 cabins; 1 male – for 8 cabins; 1 insulator; laundry room – 7 washing machines; Ironing room – 3 ironing boards and 6 irons. For classes in the creative studio "Онер" there are a choreography room and a student theater in the SH. On the 3-rd floor there is a room where a tennis table is located. The technical condition of the building is good. Living rooms are equipped with beds, bedside tables, dining tables, chairs, wardrobes. Students are provided with all bedding. All floors have storage rooms for cleaning equipment. Students' houses are under 24-hour security and video surveillance, the territory is landscaped, benches are installed, flowers are planted. There is an automatic fire alarm system, a strict access control mode is maintained, the work of which is carried out by the head and duty officers.

The results of an anonymous questionnaire of students of Kostanay State University named after A. Baitursynov:

The total number of completed questionnaires was 80, of which in Russian – 58 (72.5%), in Kazakh – 22 (27.5%). By specialties: Biology (bachelor's degree) – 6 (7.5%), Biology (master's degree) – 1 (1.2%), Chemistry (master's degree) – 3 (3.8%), Ecology (bachelor's degree) – 6 (7.5%), Geocology and environmental management (master) – 2 (2.5%). Sex and age composition of the respondents: men – 20 (25%) women – 60 (75%), of which: 16-18 years old – 5 people. (6.3%), 19-21 years old – 27 (33.8%), 22-24 years old – 22 (7.5%), over 24 years old – 26 (32.5%). Most students are satisfied with the work of the services, the materials and technical base of the University, about 10-15% of students are not fully satisfied with the financial and administrative services, the quality of the student health service, the availability of computer classes, the availability of scientific laboratories, and the provision of students with dormitories. In general, according to the results of the survey, students are satisfied with the quality of teaching. More attention should be paid to such points as stimulating creative thinking, personal and professional development, the ability to provide material in an interesting way, according to which 5-10% of students are partially satisfied or not satisfied with teaching. So about 5% of students noted that they were not fully satisfied with the opportunities for playing sports and other leisure activities.

Analytical part

The contingent of students is formed in accordance with standard rules. Given attention to the high competition in the educational services market, the EP supervisors pursue an active contingent formation policy using all available levers. At the same time, a noticeable trend is a decrease in the contingent in the EP 5B060700 – Biology, the lack of undergraduate and doctoral programs in the EPs of the specialties “Chemistry”, “Ecology”, they are risks that require additional consideration. In the EP 5B060700 – Biology in only one group in departments and courses is formed, there are many low-grade groups. All this affects profitability and limits the choice of trajectory and individualization of the EP. A good indicator of sustainability and development is an increase in the contingent of postgraduate education programs, especially significant in 2018. This is the result of the active development of the scientific potential of the University and close ties with regional participants in the labor market. The next step may be the diversification of EPs in these specialties and the development of joint programs, which will also help attract students.

The student’s “life cycle” is regulated according to the legal acts in the field of education of the Republic of Kazakhstan and all information is available on the University’s website. Despite the efforts made to develop academic mobility, there are low mobility indicators, especially outgoing external mobility. In this regard, the Commission noted that the creation of additional opportunities for learning English and other foreign languages could contribute to improving this situation.

Employment indicators, in general, are comparable with republican data. It should be noted that the supervisors of the EP carries out a targeted and proactive policy in this direction that has improved employment indicators, especially for master's programs. This is also facilitated by close ties with representatives of the regional labor market, a wide network of practice bases, the practice of opening departments of chairs at production bases.

The living conditions of nonresident students can be considered as a significant problem: there are insufficient places in dormitories, poor living conditions in existing hostels, which, inter alia, affect the trips of foreign guests and the possibility of visiting Kostanai University. It is necessary to pay attention to the creation / improvement of conditions in the student lounges, since only 53% of students expressed satisfaction with this side of the infrastructure.

The Commission noted that the resource of the Alumni Association is not used enough, it exists formally, and requires additional attention from both the University’s leadership and the EP’s leadership.

Strengths / Best Practices

The Commission noted as a good practice a developed system of programs for adaptation and support of freshmen, an active policy of formation and a wide network of practice bases, a well-functioning system of tracking and facilitating the employment of graduates, a system of stimulating

and supporting gifted students, as well as attention to ensuring leisure and personal development of students out of curriculum.

EEC recommendations

The University Administration and Eps supervisors should:

1. Strengthen the marketing work of the EP to attract undergraduate students in the specialties 5B060700 / 6B05101 – Biology, 5B060800 / 6B05201 – Ecology;
2. Create conditions for increasing the level of students' knowledge of English, as well as passing international language exams.
3. Take measures to expand the internal and external mobility of the training programs 5B060700 / 6B05101 – Biology, 5B060800 / 6B05201 – Ecology, 6M060700 / 7M05101 – Biology, 6M060600 / 7M05302 – Chemistry, 6M091100 / 7M0508801 – Geoecology and environmental management.
4. Strengthen the policy of providing dormitories for nonresident students, improving living conditions in existing hostels.
5. Strengthen the work of the Alumni Association; increase its role as a valuable source of information and resource in improving the educational program.

Conclusions of the EEC according to the criteria: According to the standard "Students" EEC notes that among 12 criteria, 5 have a strong position, 6 – satisfactory, 1 – suggests improvement.

6.7. Standard "Teaching staff"

- ✓ *The University should have an objective and transparent personnel policy, especially in the context of the EPs, including hiring, professional growth and staff development, ensuring professional competence of the entire staff.*
- ✓ *The University should demonstrate the compliance of the staff potential of the teaching staff with the development strategy of the University and the specifics of the EPs.*
- ✓ *Supervisors of the EPs should demonstrate awareness of responsibility for its employees and ensure favorable working conditions for them.*
- ✓ *Supervisors of the EPs should demonstrate the changing role of the teacher in connection with the transition to student-centered learning.*
- ✓ *The University should determine the contribution of the teaching staff to the implementation of the development strategy of the University, and other strategic documents.*
- ✓ *The University should provide opportunities for career growth and professional development of the teaching staff of the EPs.*
- ✓ *Supervisors of the EPs should involve practitioners in relevant fields in teaching.*
- ✓ *Supervisors of the EPs should provide targeted action for the development of young teachers.*
- ✓ *The University should demonstrate motivation for the professional and personal development of teachers of the EPs, including encouraging the integration of scientific activity and education, as well as the use of innovative teaching methods.*
- ✓ *An important factor is the active use by the teaching staff of the information and communication technologies in the educational process (for example, on-line training, e-portfolio, MOOC, etc.).*
- ✓ *An important factor is the development of academic mobility within the framework of the EPs, attracting the best foreign and domestic teachers.*
- ✓ *An important factor is the involvement of teaching staff in public life (the role of teaching staff in the educational system, in the development of science, the region, the*

creation of a cultural environment, participation in exhibitions, creative contests, charity programs, etc.).

Evidential part

The main provisions of the personnel policy of the University is compliance with standard qualification characteristics for employees of educational institutions, approved by Order of the Ministry of Education and Science of the Republic of Kazakhstan in relevant specialties, productive scientific activity, as well as competence and competitiveness. The indicators on the qualitative and quantitative composition of the teaching staff presented in table 2 confirm the availability of the personnel potential necessary for implementing educational programs and meeting the qualification requirements for licensing educational activities. At the department of "Biology and Chemistry" implementing the EPs 5V060700 / 6V05101 – Biology, 6M060700 / 7M05101 – Biology, 13 teachers currently work, including 5 people with academic degrees. At the department of "Ecology" implementing the EPs 5V060800 / 6V05201 – Ecology, 6M091100 / 7M05001 – Geocology and environmental management 11 teachers currently work, including 4 teachers with academic degrees. As part of the Department of Biology and Chemistry, there are 2 teachers who have received the title of best University teachers: Sultangazina G. Zh. (2016), Beishova I. S. (2018 year).

Table 12 – Summary table on the provision of teaching staff with educational programs

The code and name of educational programs	2016-2017			2017-2018			2018-2019		
	Teaching suff, total	Stuff faculty (%)	Staff faculty with academic degrees and ranks (%)	Teaching suff, total	Stuff faculty (%)	Staff faculty with academic degrees and ranks (%)	Teaching suff, total	Stuff faculty (%)	Staff faculty with academic degrees and ranks (%)
5B060700/ 6B05101 – Biology	28	25 (89%)	13 (52%)	38	34 (90%)	11 (32%)	29	24 (83%)	12 (50%)
6M060700/ 7M05101 – Biology	12	12 (100%)	9 (75%)	9	8 (88%)	6 (75%)	10	10 (100%)	7 (70%)
6M060600/ 7M05302 – Chemistry	8	8 (100%)	6 (75%)	7	6 (86%)	5 (83%)	10	10 (100%)	7 (70%)
5B060800/ 6B05201 – Ecology	30	26 (87%)	13 (35%)	33	30 (93%)	9 (30%)	26	23 (88%)	12 (52%)
6M091100/ 7M0508801 – Geocology and environmental management	13	12 (92%)	10 (83%)	11	11 (100%)	10 (91%)	8	8 (100%)	7 (88%)

The availability of the appropriate qualifications of the teaching staff of the EPs is confirmed by a research grant funded by the Science Committee of the Ministry of Education and Science of the Republic of Kazakhstan for 2018-2020. "Molecular genetic analysis of the gene pools of populations of rare plant species of Northern Kazakhstan" (project manager Sultangazina G. Zh.). In previous years, the faculty implemented 4 research topics on grant financing. The publication activity of the teaching staff of educational programs is also confirmed by the presence of the Hirsch index on the Scopus database among teachers of the EPs 5B060700 / 6B05101 – Biology, 6M060700 / 7M05101 – Biology and 5B060800 / 6B05201 – Ecology, 6M091100 / 7M0508801 – Geocology and environmental management in the Table 13.

Table 13 – List of faculty members with a Hirsch index in the Scopus database

№	Chair	Surname, Name	ID	Number of doc.	Number of cit.	h-Hirsh
1	Biology	Beishova Indira Saltanovna, Beyshova Indira Saltanovna	57195608265, 55866247500	7	4	2
2	Biology	Orlova Lubov Georgievna	56459744100	1	1	1
3	Ecology	Yunussova Gulnara Batyrbekovna	57194716176	3	2	1

Two projects of Erasmus + of the Department of Ecology, funded by the EU: "Enhancing the competencies of Central Asian universities in the field of a single European policy on environmental protection and land management – ECAP" – coordinator Kalimov N. E., allowed to improve their qualifications in EU universities for 30 teachers of various faculties, conducting classes in the specialty 5B060800 – Ecology. Changes were made to the educational program of the specialty 5B060800 – Ecology. Elements of electronic and distance learning have been introduced, 2 new training modules "Environmental Monitoring" and "Land Management" in 3 languages have been developed. Computer class purchased.

In the period of 2016-2019 the implementation of the project "Lifelong Learning for Sustainable Development – SusDev" continues – coordinator Yunusova G. B.. The project is ongoing, training modules of green skills for students and producers have been developed.

The University introduced a system of key performance indicators (Key Performance Indicators, hereinafter – KPI) to assess the activities of the faculty.

Academic mobility is implemented within the framework of financing of the Ministry of Education and Science of the Republic of Kazakhstan, as well as Erasmus +. The criteria, the procedure for inviting foreign teachers, the conditions and rights for mobility of the faculty of the University are determined by internal regulations: P 072.009-2016. Regulation. The procedure for attracting foreign specialists; P 072.079-2016. Regulation. Mobility of teachers, staff and administrative staff of the University; as well as orders, letters of instruction of the Ministry of Education and Science of the Republic of Kazakhstan. Quantitative indicators are presented in the table below.

Table 14 – Mobility of teachers

Year	Outgoing mobility	Incoming mobility
2018	6 – 5B060800/6B05201 – Ecology, 6M091100/7M0508801 – Geocology and environmental management 1 – 5B060700/6B05101, 6M060700/7M05101, 6D060700/8D05101 – Biology	1 – 6M060600/7M05302 – Chemistry (Geocology and environmental management, Kozminykh V. O., Perm State Humanitarian and Pedagogical University, Russia)

2017	5 – 5B060700/6B05101, 6M060700/7M05101, 6D060700/8D05101 – Biology 13 – 5B060800/6B05201 – Ecology, 6M091100/7M0508801 – Geocology and environmental management	
2016	5 – 5B060800/6B05201 – Ecology	2 – 5B060700/6B05101 – Biology; 6M060700/7M05101 – Biology Belaya A., Institute of Genetics and Cytology, National Academy of Sciences of Belarus, Staheev A. A., Laboratory of molecular diagnostics. Institute of Bioorganic Chemistry named after M. Shemyakin and Yu. Ovchinnikov of the Russian Academy of Sciences
2015	2 – 5B060800/6B05201 – Ecology+ 6M091100/7M0508801 – Geocology and environmental management 3 – 5B060700/6B05101, 6M060700/7M05101 – Biology	2 – 5B060800/6B05201 – Ecology, 6M091100/7M0508801 – Geocology and environmental management
2014	4 – 5B060800/6B05201 – Ecology+ 6M091100/7M0508801 – Geocology and environmental management 1 – 5B060700/6B05101, 6M060700/7M05101 – Biology	1 – 5B060700/6B05101, 6M060700/7M05101, 6D060700/8D05101 – Biology

The University introduced elements of dual learning. To do this, academic calendars and class schedules have been developed taking into account the link to the technological processes of enterprises within the framework of the variable module.

The table shows the disciplines, part of the classes of which are conducted at enterprises:

Table 15 - Disciplines, which are conducted at enterprises

Specialty	Year of study, group	Discipline	% of classes at enterprises	Enterprises
5B060700 – Biology	the 3-d year 16-601-21	Dendrology	25%	State Department of Natural Resources and Environmental Management of the Akimat of the Kostanay region
	the 4-th year 15-600-21	Орманпарктік шаруашылық	25%	Avtodom-Kostanay LLP Kostanay Zelenstroy State Department of Natural Resources and Environmental Management of the Akimat of the Kostanai Region
		Орман өсіру Ландшафттық дизайн	25%	
the 4-th year 15-601-22	Forest growing Forest park Landscaping	25% 25% 25%		

5B060800 – Ecology	the 3-d year 16-601-32	Industrial ecology Environmental quality Environmental assessment	30%	Kostanay branch of RSE Kazvodkhoz “Amangeldy hydroelectric complex”, Kostanay
		Physical ecology	20%	LLP "Aqua-Arasan"
	the 4-th year 15-601-31	Geoecology	30%	JSC SSGPO, Rudny city
	the 2-nd year 17-601-32	Urboecology Social ecology	20%	Department of Ecology

The number of grant research conducted at the University has increased over the past 3 years and their funding has accordingly increased.

Table 16 – Research data for the last 3 years

Year	Grant research Number / Amount, thousand tenge	Contractual research Number / Amount, thousand tenge
2018	3 /20800,0	12 / 3 510,035
2017	2 /9786,675	0
2016	2 /12590,00	0

Several scientific schools successfully operate at the departments under the guidance of leading teachers.

Table 17 – Scientific schools in the field of study

EP	Supervisor	Research Areas
5B060700/6B05101 – Biology 6M060700/7M05101 – Biology 6M060600/7M05302 – Chemistry	Beishova I. S.	Complex genetic marking of meat productivity in cattle of Hereford and Angus breeds of Kazakhstan breeding by genes that regulate growth rates
	Sultangazina G. Zh.	Molecular genetic analysis of gene pools of populations of rare plant species in Northern Kazakhstan
5B060800/6B05201 – Ecology 6M091100/7M0508801 – Geoecology and environmental management	Yunusova G. B.	The study of a consortium of hydrocarbon-oxidizing microorganisms in the Northern region of Kazakhstan with the determination of genetic characteristics and the creation of a biodestructor drug based on them

Analytical part

The personnel of educational programs are described in great details and in many aspects there is no doubt about the high qualification and dedication of the program staff. The University is actively conducting activities to regularly improve the qualifications of the teaching staff. Doctoral programs contribute to staff development, but overall this process is progressing rather slowly and there is no special staff renewal program. As the main problem can be considered the low mobility of faculty, as well as an insufficient number of scientific publications, especially in journals with impact factor. Particular attention should be paid to improving the records of personnel publications in order to increase staff mobility, support participation in conferences, etc. Another aspect where improvements are possible is related to knowledge of the English language.

Strengths / Best Practices

The teaching staff of the EPs 5V060700 / 6V05101 – Biology, 5V060800 / 6V05201 – Ecology, 6M060700 / 7M05101 – Biology, 6M060600 / 7M05302 – Chemistry, 6M091100 / 7M0508801 – Geocology and environmental management are actively involved in the implementation of international scientific programs of the Republic of Kazakhstan (Erasmus +) projects.

EEC recommendations

The University leadership and the EP supervisors should:

1. Create conditions for mastering the English language and passing IELTS / TOEFL exams for teachers of the specialties 5B060700 / 6B05101 – Biology, 5B060800 / 6B05201 – Ecology, 6M060700 / 7M05101 – Biology, 6M060600 / 7M05302 – Chemistry, 6M091100 / 7M0508801 – Geocology and environmental management.
2. Provide opportunities for advanced training of biologists, chemists, ecologists in the profile of the taught disciplines.

Conclusions of the EEC on the criteria: According to the standard "The teaching staff", the EEC notes that among 12 criteria, 5 have a strong position, 6 – a satisfactory one, 1 – suggests improvement.

6.8. Standard "Educational Resources and Student Support Systems"

- ✓ *The supervisors of the EPs should demonstrate the adequacy of material and technical resources and infrastructure.*
- ✓ *The supervisors of the EPs should demonstrate the existence of support procedures for various groups of students, including information and counseling.*
- ✓ *The supervisors of the EPs should demonstrate the conformity of information resources to the specifics of the EPs, including compliance with:*
 - ✓ *- technological support for students and teaching staff in accordance with educational programs (for example, online training, modeling, databases, data analysis programs);*
 - ✓ *- library resources, including a fund of educational, methodological and scientific literature on general education, basic and majors in paper and electronic media, periodicals, access to scientific databases;*
 - ✓ *- examination of the results of research, final works, dissertations on plagiarism;*
 - ✓ *- access to educational Internet resources;*
 - ✓ *- WI-FI functioning in the territory of the educational organization.*
- ✓ *The University should strive to ensure that the educational equipment and software used to master educational programs are similar to those used in the relevant industries.*

- ✓ *The University should ensure compliance with safety requirements in the learning process.*
- ✓ *The University should strive to take into account the needs of various groups of students in the context of the EPs (adults, workers, foreign students, as well as students with disabilities).*

Evidential part

The University has the necessary material and technical base, providing all types of practical training and research work of students envisaged by the educational programs of the University. The creation of an effective educational infrastructure is a prerequisite for the University to successfully fulfill its mission.

The material and technical resources and infrastructure of the University are sufficient to ensure the necessary quality of education. The University has created all the conditions for training students, conducting research and publishing the results of scientific research conducted by faculty, staff and students. The constant development and improvement of material and technical and information resources are the strategic goal of the University.

Departments and computer classes are provided with Internet access and a local University network. There is an open WI-FI zone.

The functioning of the information and educational environment of the University is provided by the corporate telecommunications network.

All theses / projects (master's theses) of the University are mandatory tested for anti-plagiarism in accordance with normative documents of the State Educational Standard of Higher and Postgraduate Education. The program is a proprietary development of the KSU, access to which is carried out from the University's internal network <http://plagiat.ku/>.

Table 17 – Provision of educational, teaching and methodological and scientific literature of accredited specialties

№	Code	Specialty	Number of students		Number of literature sources	
			State language	Russian language	State language	Russian language
1	5B060700	Biology	12	35	1692	5005
2	6M060600	Chemistry	-	28	-	2996
3	6M060700	Biology	-	23	-	2438
4	5B060800	Ecology	21	44	2982	6336

Library collections are regularly updated and replenished with new editions of educational, methodological and scientific literature, as well as with the own works of teachers of departments both in print and on electronic media. The electronic library "Proceedings of the teaching staff of the University" is available at <http://ksu.edu.kz/biblioteka/>

Analytical part

The University conducts intensive research of infrastructure improvements, and significant resources have been invested in the past few years. Investments relate to general renovation of buildings, as well as to research and educational institutions, and the existing conditions at some of the sites

visited were relatively good. However, only a few of the laboratories visited were equipped with modern equipment, and updating is required to provide the necessary learning environment. Library resources are few in number and also require improvement. A good resource for the implementation of the curriculum can be considered training materials developed by the program staff, and they successfully complement the resource pool.

Strengths/the best practices

- free access to educational Internet resources, Wi-Fi coverage throughout the organization of education; availability of its own anti-plagiarism testing system; availability of educational materials developed by the teaching staff of the educational programs.

Recommendations of the EEC

1. Improve the material and technical base of educational laboratories/classrooms on the EP 5B060700/6B05101 – Biology, 5B060800/6B05201–Ecology in terms of equipping with modern equipment, educational materials.

2. Provide for the possibility of the EP 5B060800/6B05201–Ecology, 6M091100/7M0508801–Geoecology and environmental management of the licensed specialized software.

The conclusions of the EEC according to the criteria: According to the standard "Educational resources and student support systems", the EEC notes that 7 out of 10 criteria have a strong position, 3 – satisfactory.

6.9. Standard "The public Information»

Published by the University within the framework of the EP, the information should be accurate, objective, current, and must include:

- programs, specifying expected learning outcomes;

- information on the possibility of qualification at the end of the EP;

- information on teaching, training, assessment procedures;

- information about the passing score and the educational opportunities provided to students;

- information on employment opportunities for graduates.

The management of the EP should use a variety of means of disseminating information, including media, information networks, to inform the General public and stakeholders.

Informing the public should provide support and clarification nationally development programs of the country and the system of higher and postgraduate education.

The University should publish audited financial statements on its own web resource, including in the context of the EP.

The University should demonstrate the reflection on the web resource of information characterizing the University as a whole and in the context of the educational programs.

The important factor is the availability of adequate and objective information about the PTS of the EP, in the context of personnel.

The important factor is to inform the public about cooperation and interaction with partners in the framework of the EP, including scientific/consulting organizations, business partners, social partners and educational organizations.

The University should post information and links to external resources based on the results of the external evaluation procedures.

The important factor is the participation of the University and the implemented EP in a variety of external assessment procedures.

The evidence part

The University publishes information about the activities of the University and the implementation of the EP on the website <http://ksu.edu.kz> the mission, goals and objectives, as well as the structure, history and achievements of the University are placed. For the applicants are the training programs, admissions details, job and office contacts, and the list of required documents. The students and the TS receive information about the learning process.

The annual update and reissue are also subject to information booklets: general, containing full information about the EP, the TS. The information published by the University (<http://ksu.edu.kz>) is objective and relevant. The publications cover such issues as the implementation of state programs to achieve the University, the TS and students, information support activities of departments, faculties and more. The control over ensuring the level of relevance of information is carried out by the heads of structural units, making appropriate adjustments in a timely manner.

As one of the conditions for improving the efficiency of the implementation of the EP, an educational portal is used that allows teachers to remotely interact with students, open access to materials of disciplines, receive and evaluate students' work, create automated tests and much more.

The data on the activities of the Department of "Biology and chemistry" and the Department "Ecology" on the contents of the EP and the conditions of their development is available on the website <http://ksu.edu.kz/about/faculties/>. as well as coverage in the print media, on television, both at the regional and at the national level. The TS of the departments perform on television, in newspapers and magazines, in the media on topical issues of natural science and the role of the University in solving these problems. The various resources are used for this purpose.

The analytical part

In order to inform the public about the latest achievements of the University, as well as about the existing educational programs, employees and students effectively usage of various opportunities, including articles in local newspapers, speeches on radio and television, as well as a number of other information resources.

Strengths/the best practices

The University website provides all the necessary information about the ongoing educational programs 5b060700/6B05101 – Biology, 5B060800/6B05201–Ecology, 6M060700/7M05101–Biology, 6M060600/ 7M05302–Chemistry, 6M091100/7M0508801–Geoecology and environmental management, which provides information about the passing scores and training opportunities provided to students; the results of each EP with information about the teaching, learning, assessment procedures and qualifications obtained at the end of the EP. Inform the general public and stakeholders about its activities, the management of the EP actively uses a variety of resources to disseminate information from the media to information networks.

The recommendations of the EEC

Provide placement on the website of University of information on employment opportunities (availability of vacancies, etc.) for graduates of the EP.

The conclusions of the EEC on the criteria: according to "The public information" standard, the EEC notes that out of 13 criteria 6 have a strong position, 7 – satisfactory.

6.10. The standard "Standards in the context of individual specialties»

□ *In order to familiarize students with the professional environment and relevant issues in the field of specialization, as well as to acquire skills on the basis of theoretical training, the education program should include disciplines and activities aimed at obtaining practical experience*

and skills in the specialty in general and the main disciplines in particular, including:

- *excursions to enterprises in the field of specialization (factories, workshops, research institutes, laboratories, training and experimental farms, etc.).*
- *conducting individual classes or entire disciplines at the specialization enterprise,*
- *holding seminars to solve practical problems relevant to enterprises in the field of specialization, etc.*
- The teaching staff involved in the education program should include full-time teachers with long-term experience as a full-time employee in enterprises in the field of specialization of the education program.*
- The content of all disciplines of the EP should be more or less based and include a clear relationship with the content of the fundamental natural sciences, such as mathematics, chemistry, physics.*
- The management of the EP should provide measures to strengthen practical training in the field of specialization.*
- The management of the EP should ensure the preparation of students in the application of modern information technologies.*

The evidence part

In the course of its work, the commission was convinced of the sufficiency of the material and technical base for the successful implementation of educational programs and the implementation of the mission, goals and objectives. The University has the necessary classroom fund, its own dormitories, computer classes, methodical study, gyms, equipment, which corresponds to the objectives of the educational programs of the University. The University has specialized classrooms. Educational materials, software, necessary educational literature are available for all students. The main purpose of the educational programs on the specialties 5B060700/6B05101 – Biology 5B060800/6B05201 – Ecology, 6M060700/7M05101 – Biology, 6M060600/7M05302 Chemistry 6M091100/7M0508801 – Geocology and environmental management is to prepare highly qualified specialists in demand on the labour market with a broad basic training and core competencies characteristic of higher education. To support the educational process and the training of highly qualified personnel, the University has the necessary library fund, there is an automated library and information system "KABIS", which meets international standards.

The content of educational programs 5B060700/6B05101 – Biology, 5B060800/6B05201 – Ecology, 6M060700/7M05101 – Biology, 6M060600/7M05302 – Chemistry, 6M091100/7M0508801 – Geocology and environmental management focused on the credit technology training. The main modules of the EP are based on the analysis of market needs, trends in the development of world science, experience in the implementation of such educational programs in leading foreign universities. The EP reflects the content of disciplines taking into account modern trends in the development of science, society, economic, political and social processes, the relevance of the knowledge, skills and competencies. The competence-based approach in the evaluation of educational results allows graduates to form the ability of successful socialization in employment and further employment. The implementation of the EP involves a systematic approach to determining its goals, assessing the conditions for their achievement, analyzing the implemented activities and finding new ways for dynamic development. The constant monitoring of educational results, their comprehensive assessment provide a basis for improving the methods of management of the EP as a whole.

The analytical part

Analyzing the EP on the content of the standard "Standards in the context of individual specialties" in accredited areas, the commission notes the availability of modern and relevant data on educational programs for teachers and students; the availability of the necessary conditions for the successful implementation of educational standards of higher education; the availability of necessary information on the University website; free access to educational Internet resources, free Wi-Fi;

providing students with educational and methodical publications through the use of an electronic library.

Strengths/the best practices

There are no strong positions on this standard.

The recommendations of the EEC

To continue the work on providing the necessary range and level of theoretical training and practical experience in the specialty in general and the core disciplines in particular for all EP cluster, including, with an emphasis on global trends in the development of the industry and national priorities.

The conclusions of the EEC according to the criteria: the standard "Standards in the context of individual professions," the EEC noted that of the 5 criteria 5 have a satisfactory position.

(I) REVIEW STRENGTHS/THE BEST PRACTICES

The standard "*The management of the educational program*»

1. The connection of science, education and practice. The presence of actively developed grant and contractual SRW and scientific and laboratory base in the form of SIC, the regional production bases allows to provide a high level of scientific and practical training of bachelors and masters in biology, chemistry and ecology.

2. The close communication and cooperation with regional employers and society in the planning, development and implementation of the EP.

The Standard "*The management of the information and reporting*»

1. The University and the management of the EP pays considerable attention to the information support of the EP: the website and portal of the University contains the necessary information and fully ensures the functioning of the system of collection, processing, reporting and informing stakeholders on all aspects of the EP.

2. The EP of the specialties 6M060700/7M05101 – Biology, 6M060600/7M05302 – Chemistry, 6M091100/7M0508801 – Geoecology and environmental management are fully provided

with access to full-text and reference electronic databases in the relevant fields of science.

The standard "*The development and approval of the educational program*»

The University and the management of the EP have clearly defined the procedures for the design of the EP, in which representatives of employers and students are actively involved. The review of the EP is carried out not only by domestic but also by foreign experts, which is facilitated by the high activity of the TS in ERASMUS/TEMPUS programs, which is a positive practice.

The standard "*The continuous monitoring and periodic evaluation of the educational programs*»

The close cooperation with regional employers, constant monitoring of their needs and the requirements of companies can be noted as a strength of the EP 5B060800/6B05201–Ecology, 6m060700/7M05101–Biology, 6M060600/ 7M05302 Chemistry 6M091100/7M0508801 – Geocology and environmental management, an indirect example of this is, including, conducting contractual research topics of the 12 research.

The standard "*The student-centered learning, teaching and performance assessment*»

The University management and the EP 5B060800/6B05201–Ecology, 6m060700/7M05101–Biology, 6M060600/ 7M05302 Chemistry 6M091100/7M0508801 – Geocology and the environmental management has made considerable efforts to ensure diversity and flexibility of the educational context within the curriculum and through extracurricular activities.

The standard "*Students*»

The Commission noted as good practice the developed system of adaptation programs and support for the first-year students, an active policy of formation and a wide network of practice bases, a well-functioning system of tracking and promoting the employment of graduates, a system of encouragement and support for gifted students, as well as attention to the issues of leisure and personal development of students outside the curriculum.

The standard "*The teaching staff*»

The TS of the EP 5B060700/6B05101 – Biology 5B060800/6B05201–Ecology, 6m060700/7M05101–Biology, 6M060600/ 7M05302 Chemistry 6M091100/7M0508801 – Geocology and environmental management are actively involved in performing research of national (grant MES) and international (Erasmus+) projects.

The standard "*Educational resources and student support systems*»

The free access to educational Internet resources, Wi-Fi coverage throughout the organization of education; availability of its own anti-plagiarism testing system; availability of educational materials developed by the teaching staff of the educational programs.

The standard "*The public information*»

All required information about ongoing educational programs 5B060700/6B05101 – Biology 5B060800/6B05201–Ecology, 6m060700/7M05101–Biology, 6M060600/7M05302 Chemistry 6M091100/7M0508801 – Geocology and environmental management, the information about the passing score and the educational opportunities provided to students; the learning outcomes for each EP with the information on teaching, learning, assessment procedures and qualifications obtained at the end of the EP. Inform the general public and stakeholders about its activities, the management of the EP actively uses a variety of resources to disseminate information from the media to information networks.

The standard "*The standards for individual specialties*»

There are no strong positions on this standard.



(II) REVIEW OF RECOMMENDATIONS TO IMPROVE THE QUALITY

Standard «The management of the educational program»

For the specialties 6m060700/7M05101 – Biology, 6M060600/7M05302 Chemistry
6M091100/7M0508801 – Geocology and environmental management revise the form plans for the

development of the EP and reporting on its implementation to ensure measurability and management based on facts, develop indicators and criteria of performance evaluation.

Standard "The management of information and reporting»

1. It is recommended to pay more attention to the information on the University website in English, information about research activities, research results and innovations, especially at the level of departments and the EP.

2. Extend the usage of e-learning technologies (Moodle) in the teaching process, in particular in the framework of a blended-learning for the specialties 6m060700/7M05101 – Biology, 6M060600/7M05302 Chemistry 6M091100/7M0508801 – Geoecology and environmental management.

3. Pay attention to the development of the competences of students of the master in processing and clearance of research results (6m060700/7M05101 – Biology, 6M060600/7M05302 Chemistry 6M091100/7M0508801 – Geoecology and environmental management), for example, to include in the training program the discipline as “Scientific writing”.

Standard "The development and approval of the educational program»

1. The specialties 5B060700/6B05101–Biology 5B060800/6B05201–Ecology, 6m060700/7M05101–Biology, 6M060600/ 7M05302 Chemistry 6M091100/7M0508801 – Geoecology and environmental management to make better usage of implemented in University international projects, Erasmus+ to develop and launch joint educational programs or individual modules/subjects, including using distance learning technologies.

2. Pay attention to the inclusion in the program areas 5B060700/6B05101–Biology 5B060800/6B05201–Ecology, 6m060700/7M05101–Biology, 6M060600/ 7M05302 Chemistry 6M091100/7M0508801 – Geoecology and environmental management disciplines that reflect the key global research trends in the field of sustainable development (education for sustainable development, UN, etc.), the climate change.

Standard "The continuous monitoring and periodic evaluation of the educational programs»

Improve the monitoring and evaluation of the educational programs (6m060700/7M05101 – Biology, 6M060600/7M05302 Chemistry 6M091100/7M0508801 – Geoecology and environmental management) in terms of determination of indicators, quantitative analysis, decision-making and informing stakeholder the results of the taken decisions. Pay attention to the analysis of such direct indicators of the effectiveness of training as indicators of academic performance of students and evaluation of the effectiveness of evaluation procedures of students, evaluation of teaching, the formation of competencies of graduates, the load of students.

Standard "The student-centered learning, teaching and performance assessment»

In order to strengthen the innovative educational activities pay attention to the development of the research to assess the effectiveness of the implemented technologies and teaching methods.

Standard "Students»

1. Strengthen the marketing of the EP for attracting students of bachelor's program on the specialty 5B060700/6B05101 – Biology 5B060800/ 6B05201 – Ecology.

2. Create conditions for improving the level of English language proficiency in additional types of training.

3. Provide for increased internal and external mobility programs 5B060700/6B05101 – Biology 5B060800/6B05201–Ecology, 6m060700/ 7M05101–Biology, 6M060600/ 7M05302 Chemistry 6M091100/7M0508801–Geoecology and environmental management, including at the expense of own funds of the University.

4. Strengthen policies for the provision of hostel nonresident students, improving

accommodation conditions in hostels are available.

5. Strengthen the work of the alumni association, increase its role as a valuable source of information and resource in improving the EP.

Standard "The teaching staff»

1. Create conditions for the development of the English language and passing the exams IELTS/TOEFL for teachers of the specialties 5B060700/6B05101 – Biology, 5B060800/6B05201– Ecology, 6M060700/7M05101–Biology, 6M060600/ 7M05302–Chemistry, 6M091100/ 7M0508801 – Geoecology and environmental management.

2. Provide opportunities for advanced training of specialists-biologists, chemists, ecologists on the profile of the taught disciplines.

Standard "The educational resources and student support systems»

1. Improve the material and technical base of educational laboratories/classrooms on the EP 5B060700/6B05101 – Biology, 5B060800/6B05201–Ecology in terms of the equipping with the modern equipment, educational materials.

2. Provide for the possibility of the EP 5B060800/6B05201–Ecology, 6M091100/7M0508801–Geoecology and environmental management of the licensed specialized software.

Standard "The public information»

Provide placement on the website of the University of information on employment opportunities (availability of vacancies, etc.) for graduates of the EP.

Standard "The standards for individual specialties»

Continue the work on providing the necessary range and level of theoretical training and practical experience in the specialty in general and the core disciplines in particular for all EP cluster, including, with an emphasis on global trends in the development of the industry and national priorities.

III) REVIEW OF RECOMMENDATIONS FOR THE DEVELOPMENT OF EDUCATIONAL ORGANIZATIONS

Taking into account the current risks and the relationship of sustainable development of the University with the quality of educational programs, the EEC recommends that the University management take measures:

diversify the sources of financing of the University in order to ensure sustainable development and quality of educational services;

expand the marketing area of educational services and the formation of a contingent of students both within the country and in the regions of the CIS and abroad

on the opening of dissertation councils, which will reduce risks and ensure timely defense of PhD theses;

participation in international rankings of universities and educational programs;

systematize data, analyze and stimulate the growth of scientometric indicators of the University staff;

stimulate the participation of faculty in the competition for the title “The best teacher of the University”;

create conditions for the development and promotion of knowledge of foreign languages as teaching staff and students.

Annex 1. Estimated table PARAMETERS "SPECIALIZED PROFILE»

№ i/o	№ i/o	The evaluation criteria	Position of the organization of education			
			Strong	Satisfactory	Suggests improvement	Unsatisfactory
Standard " The management of the educational program»						
1	1.	The University must have a published quality assurance policy.		+		
2	2.	The quality policy should reflect the link between research, teaching and learning.	+			
3	3.	The University should demonstrate the development of a culture of quality assurance, including in the context of the EP.		+		
4	4.	The commitment to the quality assurance should apply to all activities performed by contractors and partners (outsourcing), including joint/double-degree education and academic mobility.			+	
5	5.	The management of the EP ensures transparency of the development plan of the EP based on the analysis of its functioning, the real positioning of the University and the focus of its activities to meet the needs of the state, employers, stakeholders and students.		+		
6	6.	The management of the EP demonstrates the functioning of mechanisms for the formation and regular revision of the development plan of the EP and monitoring its implementation, assessing the achievement of training goals, meeting the needs of students, employers and society, making decisions aimed at continuous improvement of the EP.		+		
7	7.	The management of the EP should involve representatives of stakeholder groups, including employers, trainees and the TS, in the development of the EP.	+			
8	8.	The management of the EP should demonstrate the individuality and uniqueness of the development plan of the EP, its consistency with national development priorities and development strategy of the organization of education.		+		
9	9.	The University should demonstrate a clear definition of those responsible for business processes in the framework of the EP, a clear distribution of duties of staff, the division of functions of collegial bodies.		+		
10	10.	The management of the EP should provide the evidence of the transparency of the educational program management system.		+		
11	11.	The management of the EP should demonstrate the successful functioning of the internal quality assurance system of the EP, including its design, management and monitoring, their improvement, decision-making on the basis of facts.		+		

12	12.	The management of the EP should manage the risks.			+	
13	13.	The management of the EP should ensure the participation of representatives of interested persons (employers, teachers, students) in the collective management bodies of the educational program, as well as their representativeness in decision - making on the management of the educational program.			+	
14	14.	The University should demonstrate innovation management in the framework of the EP, including the analysis and implementation of innovative proposals.			+	
15	15.	The EP management should demonstrate evidence of openness and accessibility to learners, faculty, employers and other stakeholders.			+	
16	16.	The management of the EP should be trained in education management programs.			+	
17	17.	The management of the EP should ensure that the progress made since the last external quality assurance procedure is taken into account in preparing for the next procedure.			+	
Total according to the standard			2	13	2	
Standard "The management of information and reporting»						
18	1.	The University should ensure the functioning of the system of the collection, analysis and management of information through the usage of the modern information and communication technologies and software.	+			
19	2.	The management of the EP should demonstrate the systematic usage of processed, adequate information to improve the internal quality assurance system.			+	
20	3.	Within the framework of the EP, there should be a system of the regular reporting, reflecting all levels of the structure, including the assessment of the effectiveness and efficiency of departments and research.			+	
21	4.	The University should establish the frequency, forms and methods of evaluation of management of the EP, the activities of collegial bodies and structural units, senior management, implementation of research projects.			+	
22	5.	The University should demonstrate the definition of the order and ensure the protection of information, including the identification of responsible persons for the accuracy and timeliness of information analysis and data provision.			+	
23	6.	The important factor is the involvement of students, employees and teaching staff in the collection and analysis of information, as well as decision-making based on them.			+	
24	7.	The management of the EP should demonstrate that there is a mechanism for communication with learners, workers and other stakeholders, including conflict resolution mechanisms.			+	
25	8.	The University should provide a measure of the degree of satisfaction of the needs of faculty, staff and students within the framework of the EP and demonstrate the evidence of elimination of the found shortcomings.			+	
26	9.	The University should evaluate the effectiveness and efficiency of activities, including in the context of the EP.				+

		<i>The information collected and analyzed by the University should take into account:</i>				
27	10.	the key performance indicator;		+		
28	11.	dynamics of the contingent of students in the context of forms and types;		+		
29	12.	the level of academic performance, achievement of students and the dismissal;		+		
30	13.	the satisfaction of students with the implementation of the EP and the quality of education at the University;		+		
31	14.	the availability of educational resources and support systems for students;		+		
32	15.	the employment and career growth of graduates.		+		
33	16.	Students, employees and teaching staff must document their consent to the processing of personal data.		+		
34	17.	The management of the EP should facilitate the provision of all necessary information in the relevant fields of science.	+			
Total according to the standard			2	14	1	
Standard "The development and approval of the educational program»						
35	1.	The University should define and document the procedures for the development of the EP and their approval at the institutional level.	+			
36	2.	The management of the EP should ensure that the developed EP meets the stated objectives, including the expected learning outcomes.	+			
37	3.	The management of the EP should ensure that the developed models of the EP graduate describe the learning outcomes and the personal qualities.	+			
38	4.	The management of the EP must demonstrate the conduct of external examinations of the EP.	+			
39	5.	The qualifications obtained at the end of the EP should be clearly defined, explained and consistent with a certain level of NSC .		+		
40	6.	The management of the EP should determine the impact of disciplines and professional practices on the formation of learning outcomes.		+		
41	7.	An important factor is the ability to prepare students for professional certification.		+		
42	8.	The management of the EP should provide the evidence of the participation of students, faculty and other stakeholders in the development of the EP, ensuring their quality.	+			
43	9.	The complexity of the EP should be clearly defined in Kazakhstan loans and ECTS.		+		
44	10.	The management of the EP should provide the content of academic disciplines and learning outcomes level (bachelor, master, doctoral).		+		

45	11.	The structure of the EP should provide for different activities corresponding to the learning outcomes.		+		
46	12.	An important factor is the presence of the joint EP with the foreign educational organizations.			+	
Total according to the standard			5	6	1	
Standard "The continuous monitoring and periodic evaluation of the educational programs»						
47	1.	The University should monitor and periodically evaluate the EP in order to achieve the goal and meet the needs of students and society. The results of these processes are aimed at continuous improvement of the EP.		+		
		The monitoring and periodic evaluation of the EP should consider:				
48	2.	the content of the programs in the light of the latest achievements of science in a particular discipline to ensure the relevance of the taught discipline;	+			
49	3.	the changes in the needs of the society and the professional environment;	+			
50	4.	the workload, academic performance and graduation;		+		
51	5.	the effectiveness of students ' assessment procedures;		+		
52	6.	the expectations, needs and satisfaction of students with the EP training;		+		
53	7.	the educational environment and support services and their compliance with the goals of the EP.		+		
54	8.	The University and the management of the EP must provide the evidence of the participation of students, employers and other stakeholders in the revision of the EP.		+		
55	9.	All stakeholders should be informed of any planned or undertaken actions with respect to the EP. All changes made to the EP must be published.	+			
56	10.	The management of the EP should ensure that the content and structure of the EP are reviewed in the light of changes in the labour market, employers ' requirements and social demands of the society.	+			
Total according to the standard			4	6		
Standard "The student-centered learning, teaching and performance assessment»						
57	1.	The management of the EP should ensure respect and attention to different groups of students and their needs, providing them with flexible learning paths.	+			
58	2.	The management of the EP should ensure the usage of different forms and methods of teaching and learning.		+		
59	3.	The important factor is the availability of own research in the field of teaching methods of academic disciplines of the EP.			+	
60	4.	The management of the EP should demonstrate the existence of a feedback system on the usage of different teaching methods and evaluation of learning outcomes.		+		
61	5.	The management of the EP should demonstrate support for the autonomy of students, with simultaneous guidance and		+		

		assistance from the teacher.				
62	6.	The management of the EP should demonstrate the existence of procedures for responding to complaints of students.		+		
63	7.	The University should ensure consistency, transparency and objectivity in the evaluation of learning outcomes for each EP, including appeal.		+		
64	8.	The University should ensure that the procedures for assessing the learning outcomes of students of the EP planned learning outcomes and objectives of the program. The criteria and methods of evaluation for the EP should be published in advance.	+			
65	9.	The University should identify mechanisms to ensure the development of each graduate of the EP learning outcomes and ensure the completeness of their formation.	+			
66	10.	The evaluators should be familiar with modern methods of assessing learning outcomes and regularly improve their skills in this area.	+			
Total according to the standard			4	5	1	
Standard "Students»						
67	1.	The University should demonstrate the policy of the formation of the contingent of students from admission to graduation and ensure transparency of its procedures. The procedures governing the life cycle of students (from admission to completion) should be defined, approved and published.	+			
68	2.	The management of the EP should demonstrate the implementation of special adaptation and support programs for newly enrolled and foreign students.	+			
69	3.	The University must demonstrate its compliance with the Lisbon Convention on recognition.		+		
70	4.	The University should cooperate with other educational institutions and national centres of the "European network of national information centres for academic recognition and mobility/National academic Information Centres for Recognition" ENIC/NARIC to ensure comparable recognition of qualifications.		+		
71	5.	The management of the EP should demonstrate the existence and application of a mechanism to recognize the results of academic mobility of students, as well as the results of additional, formal and non-formal education.		+		
72	6.	The University should provide an opportunity for external and internal mobility of students of the EP, as well as assist them in obtaining external grants for training.		+		
73	7.	The management of the EP should make the maximum amount of effort to provide students with places of practice, to promote the employment of graduates, to maintain communication with them.	+			
74	8.	The University must provide the graduates of the EP with documents confirming the qualifications obtained, including the achieved learning results, as well as the context, content and status of the education received and evidence of its		+		

		completion.				
75	9.	The important factor is the monitoring of employment and professional activity of graduates of the EP.		+		
76	10.	The management of the EP should actively encourage students to self-education and development outside the main program (extracurricular activities).	+			
77	11.	The important factor is the existence of an existing Association/alumni Association.			+	
78	12.	The important factor is the availability of a mechanism to support gifted students.	+			
Total according to the standard			5	6	1	
Standard "The teaching staff»						
79	1.	The University should have an objective and transparent personnel policy, including recruitment, professional growth and development of personnel, ensuring the professional competence of the entire staff.	+			
80	2.	The University should demonstrate the compliance of the staff potential of the faculty with the development strategy of the University and the specifics of the EP.	+			
81	3.	The management of the EP should demonstrate a sense of responsibility for its employees and ensure a favourable working environment for them.	+			
82	4.	The leadership of the EP should demonstrate the change in the role of the teacher in connection with the transition to student-centered learning.		+		
83	5.	The University should determine the contribution of the TS of the EP in the implementation of the development strategy of the University, and other strategic documents.		+		
84	6.	The University should provide opportunities for career growth and professional development of the TS of the EP.		+		
85	7.	The management of the EP should involve practitioners from relevant industries in teaching.		+		
86	8.	The management of the EP should ensure targeted actions for the development of young teachers.		+		
87	9.	The University should demonstrate the motivation of professional and personal development of teachers of the EP, including the promotion of both the integration of research and education, and the use of innovative teaching methods.	+			
88	10.	The important factor is the active usage of the PTS information and communication technologies in the educational process (for example, on-line training, e-portfolio, MOE, etc.).			+	
89	11.	The important factor is the development of academic mobility within the EP, attracting the best foreign and domestic teachers.		+		
90	12.	The important factor is the involvement of the TS of the EP in society (the role of the TS in the education system, in the development of science, the region, the creation of a cultural environment, participation in exhibitions, creative competitions, charity programs, etc.).	+			
Total according to the standard			5	6	1	

The standard "Educational resources and student support systems»						
91	1.	The management of the EP should demonstrate the adequacy of logistical resources and infrastructure.		+		
92	2.	The management of the EP must demonstrate the existence of procedures for support of different groups of students, including informing and consulting.	+			
		<i>The management of the EP should demonstrate the compliance of information resources with the specifics of the EP, including compliance:</i>				
93	3.	the technological support of students and teaching staff in accordance with educational programs (for example, online training, modeling, databases, data analysis programs);		+		
94	4.	the library resources, including the fund of educational, methodical and scientific literature on general education, basic and major disciplines on paper and electronic media, periodicals, access to scientific databases;	+			
95	5.	examination of the results of research, final works, theses on plagiarism;	+			
96	6.	the functioning of WI-FI on the territory of the organization of education;	+			
97	7.	the functioning of WI-FI in the territory of the organization of education.	+			
98	8.	The University should strive to ensure that the training equipment and software used for the development of the EP, were similar to those used in the relevant industries.		+		
99	9.	The University must ensure compliance with safety requirements in the learning process.	+			
100	10.	The University should strive to take into account the needs of different groups of students in the context of the EP (adults, workers, foreign students, as well as students with disabilities).	+			
Total according to the standard			7	3		
Standard "The public information»						
		<i>The information published by the University within the EP should be accurate, objective, relevant and should include:</i>				
101	1.	the implemented programs, indicating the expected learning outcomes;	+			
102	2.	the information on the possibility of qualification at the end of the EP;	+			
103	3.	the information on teaching, training, assessment procedures;	+			
104	4.	the information about passing scores and training opportunities provided to students;	+			
105	5.	the information on employment opportunities for graduates.		+		
106	6.	The management of the EP should use a variety of means of disseminating information (including media, web resources, information networks, etc.) to inform the general public and stakeholders.	+			

10 7	7.	The public awareness should include support and clarification of the country's national development programs and higher and postgraduate education.		+		
10 8	8.	The University should publish audited financial statements on its own web resource.		+		
10 9	9.	The University should demonstrate the reflection on the web resource of information characterizing the University as a whole and in the context of the EP.	+			
11 0	10.	The important factor is the availability of adequate and objective information about the TS of the EP, in the context of persons.		+		
11 1	11.	The important factor is to inform the public about cooperation and interaction with partners in the framework of the EP, including scientific/consulting organizations, business partners, social partners and educational organizations.		+		
11 2	12.	The University should post information and links to external resources based on the results of external evaluation procedures.		+		
11 3	13.	The important factor is the participation of the University and the implemented EP in a variety of external evaluation procedures.		+		
Total according to the standard			6	7		
The standards in the context of individual specialties						
NATURAL SCIENCES, AGRICULTURAL SCIENCE, ENGINEERING, AND TECHNOLOGY						
		Educational programs in the areas of "Natural Sciences", "Technical Sciences and technologies", such as "Mathematics", "Physics", "Information systems", etc., must meet the following requirements:				
12 6	1.	In order to familiarize students with the professional environment and relevant issues in the field of specialization, as well as to acquire skills on the basis of theoretical training, the education program should include disciplines and activities aimed at obtaining practical experience and skills in the specialty in general and core disciplines in particular, including: - excursions to enterprises in the field of specialization (factories, workshops, research institutes, laboratories, training and experimental farms, etc.), - conducting individual classes or entire disciplines in the enterprise specialization, - holding seminars to solve practical problems relevant to enterprises in the field of specialization, etc.		+		
12 7	2.	The teaching staff involved in the education program should include full-time teachers with long-term experience as a full-time employee in enterprises in the field of specialization of the education program.		+		
12 8	3.	The content of all disciplines of the EP should be more or less based and include a clear relationship with the content of the fundamental natural sciences, such as mathematics, chemistry, physics.		+		

12 9	4.	The management of the EP should provide measures to strengthen practical training in the field of specialization.		+		
13 0	5.	The management of the EP should provide training to students in the use of modern information technology.		+		
Total according to the standard				5		
TOTAL			40	71	7	

