



«АККРЕДИТТЕУ ЖӘНЕ РЕЙТИНГТІҢ  
ТӘУЕЛСІЗ АГЕНТТІГІ» КЕМ

НУ «НЕЗАВИСИМОЕ АГЕНТСТВО  
АККРЕДИТАЦИИ И РЕЙТИНГА»

INDEPENDENT AGENCY FOR  
ACCREDITATION AND RATING

*Addressed  
Accreditation  
the Council of the IAAR*

## REPORT

**on the results of the external expert assessment Commission for compliance with the requirements of the standards of specialised accreditation of educational programmes 5B011300/6B01505 – «Biology », 5B060700/6B05101 – « Biology», 6M011300/7M01505 – «Biology», 6M060700/7M05101- «Biology» RSE on REM “Sarsen Amanzholov East Kazakhstan state University”**

**from « 04 » to « 06 » June 2020**

**Ust-Kamenogorsk**

**« 06 » June 2020**

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**External expert Commission**

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## (I) LIST OF DESIGNATIONS AND ABBREVIATIONS

|                |   |
|----------------|---|
| <b>IAAR</b>    | Independent Agency for Accreditation and Rating                         |
| <b>EKSU</b>    | RSE on REM «East Kazakhstan State University named after S. Amanzholov» |
| <b>MES RK</b>  | Ministry of Education and Science of the Republic of Kazakhstan         |
| <b>EEC</b>     | External expert commission HAAP/IAAR                                    |
| <b>BD</b>      | Basic disciplines   |
| <b>FQW</b>     | Final qualifying work   |
| <b>IRD</b>     | Internal regulatory documents   |
| <b>HE</b>      | Higher education  |
| <b>EEEE</b>    | External evaluation of educational achievements                         |
| <b>SAC</b>     | State attestation commission  |
| <b>SMSE RK</b> | State mandatory standard of education of the Republic of Kazakhstan     |
| <b>UNT</b>     | Unified national test   |
| <b>ITWP</b>    | Individual teacher's work plan  |
| <b>IOS</b>     | International organization for standardization                          |
| <b>IC</b>      | Individual curriculum   |
| <b>c.b.s.</b>  | candidate of Biological Sciences  |
| <b>CED</b>     | Catalog of compulsory and elective disciplines                          |
| <b>CTT</b>     | Credit training technology  |
| <b>IS</b>      | International standard  |
| <b>MEP</b>     | Modular educational program   |
| <b>RL</b>      | Research laboratory   |
| <b>RW</b>      | Research work   |
| <b>SRWS</b>    | Scientific-research work of the student                                 |
| <b>RWMS</b>    | Research work of a master student                                       |
| <b>RWDS</b>    | Research work of a doctoral student                                     |
| <b>NFQ</b>     | The national framework of qualifications                                |
| <b>NQS</b>     | National qualifications system  |
| <b>GES</b>     | General education subjects  |
| <b>EP</b>      | Educational program   |
| <b>RO</b>      | Registration office   |
| <b>SD</b>      | Specialized disciplines   |
| <b>F</b>       | Faculty   |
| <b>RK</b>      | Republic of Kazakhstan  |
| <b>RSO</b>     | Republican subject Olympiad   |
| <b>WC</b>      | Working curriculum  |
| <b>M</b>       | Media   |
| <b>QMS</b>     | Quality management system   |
| <b>IWS</b>     | Independent work of a student   |
| <b>IWST</b>    | Independent work of a student with a teacher                            |
| <b>TC</b>      | Typical curriculum  |
| <b>EMCD</b>    | Educational and methodical complex of the discipline                    |
| <b>EMCS</b>    | Educational and methodical complex of specialties                       |
| <b>EMW</b>     | Educational and methodical work   |

## (II) INTRODUCTION

In accordance with order No. 35-20-OD of 24.04.2020 of the Independent Agency for Accreditation and Rating, from June 04 to June 06, 2020, an external expert Commission assessed the compliance of The RSE at the Sarsen Amanzholov East Kazakhstan state University with the standards of specialized accreditation of educational programs of the NAAR (from February 24, 2017, No. 10-17-OD, fifth edition).

The report of the external expert Commission (EEC) contains an assessment of the compliance of EKSU activities within the framework of specialized accreditation of educational programs with the NAAR criteria, and recommendations of the ECC for further improvement of the parameters of the specialized profile.

### **EEC composition:**

1. Commission chairman IAAR – Kamkin Viktor Aleksandrovich, PhD in Biological Sciences, associate Professor of S. Toraighyrov Pavlodar state University (Pavlodar), (EP 5B060700/6B05101 – «Biology», 6M060700/7M05101 – «Biology»).

2. Observer from the IAAR – Niyazova Guliyash Balkenovna, project manager for the institutional and specialized accreditation of HAAP / IAAR universities (Nur-Sultan).

3. Expert IAAR – Abeldinov Elaman Kanatovich, PhD (Nur-Sultan), (EP 5B060600/6B05302 – «Chemistry», 6M060600/7M05302 – «Chemistry»).

4. Expert IAAR – Musdybayeva Sharbanu Akkaziyeuna, k.ch.sc., associate Professor of the Kazakh engineering and technological University (Almaty), (EP 5B011200/6B01504 – «Chemistry», 6M011200/7M01504 – «Chemistry»).

5. Expert IAAR – Myasnikova Lyudmila Nikolaevna, k.ph.-m.sc., associate Professor of Aktobe state regional University named after K. Zhubanov (Aktobe), (EP 5B060200/6B01501 – «Informatics», 6M060200/7M06101 – «Informatics»).

6. Expert IAAR – Safarov Ruslan Zairovich k.ch.sc., associate Professor of the L. N. Gumilyov Eurasian national University (Nur-Sultan), (5B011300/6B01505 = «Biology», 6M011300/7M01505 – «Biology»).

7. Expert IAAR – Tashev Bekbolat Akhanovich, PhD, associate Professor of the Kazakh national women's pedagogical University (г. Алматы), (EP 6D060400/8D05301 – «Physics»).

8. Expert IAAR – Urmashiev Bidaulet Amantayevich, k.ph.-m.sc., associate Professor of Al-Farabi Kazakh national University (Almaty), (EP 5B070300/6B06102 – «Information system», 5B011100/6B01501 – «Informatics»).

9. Expert IAAR, employers' representative – Adylkhan Asset Berdygaliuly, Head of the Human Capital Development Department of "Atameken" East Kazakhstan region (Ust-Kamenogorsk), (EP 6D060400/8D05301 – «Physics»).

10. Expert IAAR, the representative of the student community – Daniyarova Madina Daniyarovna, student EP 5B073100 - "Life safety and environmental protection" of the East Kazakhstan State Technical University. D. Serikbayeva (Ust-Kamenogorsk).

## (III) REPRESENTATION TO THE EDUCATION ORGANISATION

East Kazakhstan State University named after Sarsen Amanzholov (hereinafter - EKSU) was founded in 1952 as the Ust-Kamenogorsk Pedagogical Institute. In 1991 the university was transformed into the East Kazakhstan State University. In October 2003, by the Resolution of the Government of the Republic of Kazakhstan, it was named after Sarsen Amanzholov.

EKSU positions itself as one of the leading educational, scientific, methodological and cultural centers of the Eastern region of the country.

The University provides a wide range and high quality of educational services. The contingent of students at the University is 7034 people. For working youth studying in an abbreviated form on the basis of TVE and higher education, since 2010 the educational process

has been organized with the use of DOT. Training is conducted in the state, Russian and English languages. The structure of the university includes 4 faculties, a higher college and 8 research laboratories and centers. The university carries out training in 54 EP for bachelor's degree, 33 EP for master's degree and 8 EP for PhD doctoral studies in the following areas: "Education", "Natural Sciences", "Business", "Technical Sciences", "Services", "Law".

The Higher College of EKSU named after S. Amanzholov. The recruitment of students to the Higher College is carried out in 9 specialties and 13 qualifications, 2 of which are applied bachelor's degree.

The implementation of the accredited EP 6B01505 / 5B011300 - Biology, 6B05101 / 5B060700 - Biology, 7M01505 / 6M011300 - Biology, 7M05101 / 6M060700 - Biology is carried out at the Department of Biology of the Faculty of Natural Sciences and Technology.

The university has passed the international certification of the quality management system (certificate dated October 29, 05 DIN EN ISO 9001: 2000, registration number 04115225 issued by the Munich Certification Center). In 2005, 2010, 2015 The university has successfully passed state certification. In 2010, 2014, the Munich Certification Center carried out recertification of the QMS.

Education at the university is conducted in the state, Russian and English languages.

The University is a member of 7 international Associations, actively participates in 8 international and national rankings of universities and educational programs. The university has successfully passed institutional accreditation, accredited for a period of 5 years by NAOKO (certificate IA-A No. 0104 dated May 27, 2019). Certificate validity: May 27, 2019 - May 24, 2024

EP bachelor's and master's degrees of the University passed the international specialized accreditation ASIIN in 2015 and were accredited for 5 years.

The educational activity of the university is carried out on the basis of the Law "On Education" of the Republic of Kazakhstan dated July 27, 2007, a perpetual license (No. 12020617) issued by the Committee for Control in the Sphere of Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan on December 11, 2012 and is regulated by the Charter of the university, Academic policy of EKSU, Development Program of EKSU named after S. Amanzholova for 2018-2022.

The academic policy of the university is a system of measures, rules and procedures for planning and managing educational activities and the effective organization of the educational process, aimed at the implementation of student-centered learning and improving the quality of education.

#### **(IV) DESCRIPTION OF THE EEC VISIT**

The work of the EEC was carried out on the basis of the approved Program of the visit of the expert commission for specialized accreditation of educational programs of the East Kazakhstan State University named after Sarsen Amanzholov in the period from 04 to 06 June 2020.

In order to coordinate the work of the EEC, on 03.06.2020, an opening meeting was held, during which powers were distributed among the members of the commission, the schedule of the visit was clarified, and agreement was reached on the choice of examination methods.

In accordance with the requirements of the standards, the program of the visit covered meetings with vice-rectors, heads of structural divisions, deans, heads of university departments, teachers, students, alumni, employers and employees from structural divisions, interviewing and questioning of teachers and students in connection with quarantine measures was carried out online via videoconference. A total of 90 people took part in the meetings (Table 1).



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

| Category of participants      | Quantity   |
|-------------------------------|------------|
| RECTOR                        | 1          |
| Vice-rector's office          | 2          |
| Heads of structural divisions | 22         |
| Deans                         | 1          |
| Head of department            | 4          |
| Teachers                      | 24         |
| Students, undergraduates      | 63         |
| Graduates                     | 10         |
| Employers                     | 10         |
| <b>Total</b>                  | <b>137</b> |

A visual inspection was carried out in order to obtain a general idea of the organization of educational, scientific and methodological processes, material and technical base, to determine its compliance with standards, as well as to get an idea of the workplaces of teaching staff, employees and students. The experts examined the Faculty of Natural Sciences and Technologies and its four departments: (Department of Computer Modeling and Information Technologies; Department of Chemistry; Department of Biology; Department of Physics), as well as structural divisions. The educational building No. 1 (Scientific library, scientific hall for teaching staff and undergraduates, the Rare Books Fund, Electronic Reading Room, Museum of Archeology and Cultural Heritage of Altai, IT-office of chemistry named after Professor A. Akhmetov, Educational Laboratory of General Chemistry named after the initiator establishment and the first rector of EKSU, Doctor of Chemistry, Academician of NAS RK E. Mambetkaziya, Laboratory of Phytochemistry, Laboratory of Chemical Analysis, Laboratory of Physical and Chemical Research, Pharmaceutical and Toxicological Chemistry, Laboratory of Analytical Chemistry, Sports Hall, Students House No. 5, DSP "Parasat", Trunov Fitness Center), Academic Building No. 8 (National Laboratory for Collective Use), Academic Building No. 7 (Research Center "Surface Engineering and Tribology", computer classes (rooms 214,214A, 211A), Educational laboratory Robolab. etc.

In accordance with the accreditation procedure, a remote survey of 24 teachers, 63 students was carried out.

In order to confirm the information presented in the Self-Assessment Report, external experts requested and analyzed the working documentation of the university. In particular, the Development Program of EKSU im. S. Amanzholova for 2018 - 2022, University work plan, work plans of departments, catalog of elective disciplines, Regulations on the department, RUP for master's and bachelor's degrees, job descriptions, plans and minutes of the Academic Council, UMKD, etc.

Along with this, the experts studied the internet positioning of the university through the official website of the university <https://www.vkgu.kz/ru>.

Members of the EEC visited the practice bases of accredited programs: KSU "Training and Production Plant" of the Akimat of Ust-Kamenogorsk; Branch of RSE on REM "Kazhydromet for East Kazakhstan region"; LLP "Experimental farm of oilseeds"; TechnoAnalit LLP.

EEC members attended video lectures:

according to EP 6B01505 - "Biology":

- discipline "Cell and tissue biology", for the 1st year teacher Tuktasynova A.

- discipline "Asimdikter of anatomy of men morphology" for the first year, teacher Iginisova Zh.T .

## (V) COMPLIANCE WITH SPECIALISED ACCREDITATION STANDARDS

### 5.1 Standard «Management of the educational programme»

#### *Evidence part*

The mission, strategic goals and objectives of the University (approved by The academic Council, Protocol No. 2 of October 3, 2018) are consistent with the national priorities and development programs in the field of education and science of the Republic of Kazakhstan and published on the website

<https://www.vkgu.kz/ru/page/ceci-v-oblasti-kachestva.html>,

<https://www.vkgu.kz/ru/page/missiya-i-videnie.html>.

The University management has identified 7 key goals aimed at quality assurance, taking into account scientific and innovative, educational, educational, cultural, financial and economic aspects. In accordance with the strategic goals, the University has identified seven key tasks. Strategic goals and key objectives in the field of quality assurance are published on the University's website in Russian, English and Kazakh, with the transition to Latin graphics. Also, goals and objectives are posted on information stands in the University lobby.

As a result of interviews, studying the University's documentation and information on the EKSU website (The development program of S. Amanzholov EKSU for 2018-2022 was approved by the decision of the Academic Council, Protocol No. 2 of 27.09.2018; The action plan for the implementation of the development program of S. Amanzholov EKSU for 2018-2022 was approved by the decision of the Academic Council, Protocol No. 2 of 27.09.2018) the members of the expert group made sure that the implementation of the accredited educational programs EP 5B011300/6B01505 – "Biology", 5B060700/6B05101 – "Biology", 6M011300/7M01505 – "Biology", 6M060700/7M05101 – "Biology" is carried out in accordance with mission, vision and priorities of the University.

The development program of S. Amanzholov EKSU for 2018-2022 (approved by the academic Council on October 3, 2018) was developed on the basis of a prospective analysis of the development of the educational services market. The Commission confirms that the strategic, tactical and operational activities of the University are reflected in the Planning, reporting and regulatory documents of the S. Amanzholov EKSU, the Commission was provided with an Academic policy (re-approved by the academic Council of the University, Protocol No. 6 of December 27, 2018); Order of the rector for approval of the working group on adjustment of the development Program for monitoring the implementation of indicators and indicators with an indication of the period, for example, for 09.2018-09.2019. (Order No. 182-p of 17.05.2019); order of the Vice-rector for strategic development and research on monitoring the University (order No. 98-p of 20.05.2019); report on the implementation Of The development program of S. Amanzholov EKSU for 2018-2022 and action plan for the implementation of the University development program; Protocol of the Academic Council No. 2 of 26.09.2019. to discuss adjustments in terms of terms, indicators and changes to the University development Program; minutes of the Academic Council No. 10 dated 26.03.2020 to discuss changes to the University development Program due to the introduction of new legislative acts and regulatory documents of the Government and the Ministry of education and science of the Republic of Kazakhstan.

Familiarization with the development programs of accredited EP 5B011300/6B01505 – "Biology", 5B060700/6B05101 – "Biology", 6M011300/7M01505 – "Biology", 6M060700/7M05101 – "Biology" for 2018-2021 showed that their content corresponds to the University development Program.

The meeting with Vice-rectors, heads of structural divisions and faculty of the University confirms the possible risks in the development of strategic documents. Reducing potential risks is carried out by adjusting educational trajectories, which are reflected in the catalog of elective subjects (CEDs approved by the academic Council of the University, for accredited EP, Protocol No. 3 of 5.02.2018).



The University applies comprehensive measures to counteract the facts of corruption. The Commission notes the presence of boxes for complaints and suggestions in academic buildings, as well as the functioning of the rector's blog on the University's website. The University's portal has an open access anti-corruption website that provides students with information about "Legislative acts", "disciplinary anti-corruption Council", and the "Clean session" campaign. The Online portal "anti-corruption" is actively available (<https://www.vkgu.kz/ru/page/zakonodatelnye-akty.html>). On this same website there is a helpline 54-14-33. The educational plans of curatorial groups presented to the Commission at the Department include the following questions: "On fighting corruption", "On countering corruption".

The participation of stakeholders in the development of the EP is confirmed by positive reviews submitted to the Commission from: head of the East Kazakhstan regional territorial Inspectorate of forestry and wildlife Kitapbayev S. K.; Director of LLP "experimental farm of oil crops »Tomashenko A. P., Deputy Director of "East Kazakhstan research Institute of agriculture" LLP Toktarov N. Z., head of "Scientific and Production center of fisheries" LLP Aubakirov B. S., General Director of RSE "Altai Botanical garden" Suleimenov A. N. from the Department of education of the East Kazakhstan region. Students and employers take part in the discussion of the EP.

The EP structure is regularly reviewed and updated to meet the needs of the region and the interests of employers. The structure of the EP includes the following disciplines on the recommendations of employers (table 2).

Table 2 - disciplines recommended by employers

| EP                 | Name of disciplines   | Company-employer   |
|--------------------|---|--|
| 6B01505<br>Biology | Geobotany   | RSU "West Altai state nature reserve»  |
|                    | Ecology of plants and animals   |  |
| 6B05101<br>Biology | Plant ecology   |  |
| 6B01505<br>Biology | Ecological dendrology   | RSE "Altai Botanical garden»   |
|                    | Biotechnology   |  |
| 6B05101<br>Biology | Plant biotechnology   | LLP "KazNIIRKH"  |
|                    | Fundamentals of biotechnology   |  |
|                    | Dendrology  |  |
|                    | Entomology  |  |
| 6B01505<br>Biology | Bioindication methods in botany   |  |
| 6B01505<br>Biology | Entomology and plant protection   |  |
| 6B01505<br>Biology | Methods for solving genetic problems  | KSU "Secondary School No. 20 named after A. Baitursynov "  |
|                    | Organization of an environmental workshop at the school   |  |
| 6B05101<br>Biology | Biodiversity Of Kazakhstan  | RSU "East Kazakhstan regional territorial inspection of forestry and wildlife Of the Committee of forestry and wildlife" |
| 6B01505<br>Biology | Biophysics and bionics  | KSU "Secondary school No. 20 named after A. Baitursynova»  |
|                    | Methodology for monitoring students ' knowledge on the system of criteria-based assessment in the school biology course |  |
| 6B05101<br>Biology | Limnology   | LLP "KazNIIRKH"  |
|                    | Biological methods for assessing  |  |

|                    |  |  |
|--------------------|--|--|
|                    | water quality<br>Environmental monitoring of water resources   |  |
| 6B01505<br>Biology | 1. Ecological education of schoolchildren<br>2. Methodology for organizing project activities of schoolchildren in the field of natural sciences | KSU "Secondary School No. 20 named after A. Baitursynov "  |
| 6B05101<br>Biology | 1 Aquatic biodiversity and aquaculture   | LLP «Fisheries Research and Production Center»   |
| 6B01505<br>Biology | Zoophysiology  | Research Institute of Chemistry and Biology in Ust-Kamenogorsk   |
| 6B05101<br>Biology | Introduction and basics of plant quarantine  | East Kazakhstan Regional Quarantine Laboratory, a branch of the state institution "Republican Plant Quarantine Center" of the Committee for State Inspection in the Agro-Industrial Complex of the Ministry of Agriculture of the Republic of Kazakhstan |

The accredited EP are consistent with the strategic goals and key objectives of the university, in particular with the aim of promoting the integration of national culture and language into the world civilizational space, streams with teaching in English are formed; to provide high-quality educational services and the training of competitive specialists on the recommendation of Secondary School No. 20, the EP 6B01505 Biology includes the disciplines "Environmental education of schoolchildren" and "Methodology for organizing project activities of schoolchildren in the field of natural sciences."

The transparency of the management of accredited educational programs is confirmed by the available minutes of the meetings of the Committee of the Academic Council on natural science specialties, at which the EP is discussed and approved (Protocol No. 1 of January 11, 2019), which was attended along with the heads of the EP (acting dean, head Departments), six employers: Director of UI "Ecobiocenter" of Akimat of Ust-Kamenogorsk A. Tsyganov, director of LLP "Ecoservice S" Sandybaev E.K. and others, as well as a 4th year student of specialty 5B060700 - Biology Zhunusov R.

The Commission notes the presence of the implementation of the results of research activities in the educational process. At the department there are acts of implementation of the results of research work on the topics "Fermented milk functional products based on Jerusalem artichoke"; "Rukhani Zhagyru" bardarlamasy biologalyk bilim berude zhzege asyru zholdary "and others. Implementation certificates reflect the name of the R&D being implemented, the place of implementation, the subject of implementation, the authors, the timing and effectiveness of implementation, are endorsed by the executors, the head of the department, the dean of the faculty and are approved by the Vice-rector for strategic development and scientific work.

At the university, on the basis of the scientific laboratory for collective use, EKSU named after S. Amanzholova, in the laboratory of plant biology and biotechnology in 2019, scientific research was completed aimed at solving the practical problems of the region: "Innovative technology for the production of super-elite of super-early and early varieties of potatoes on the healthy lands of the East Kazakhstan region", "Implementation of innovative methods of biotechnology in seed production major crops for a healthy and productive elite. " The research results were provided through a workshop and a round table on November 7, 2019 to local agricultural manufacturers and scientific organizations (VKSHOZ LLP, OHMK LLP, methodological center for diagnostics and forecasts, Ulan-Zhemis LLP, KH oilseeds, D.

Serikbayev EKSTU, Mileiko LLP, Ecobiocenter, East Kazakhstan Department of Agriculture) ... The Commission was provided with five methodological brochures based on the results of these studies.

### ***Analytical part***

The commission confirms that the activities of the accredited EP are consistent with the strategy, mission, vision and values of the educational organization. The content and form of the EP, as well as the decisions taken by the EP management are coordinated with the strategic documents. The university develops and implements measures to continuously improve the quality of the implementation of the educational process within the accredited EP.

The strategic objectives of the EP are brought to the attention of the students, which is confirmed by the results of the questionnaire, where to the question "How satisfied are you with the explanation to you of the rules and strategy of the educational program (specialty)" before entering, 96.8% of respondents expressed full or partial satisfaction.

As the results of the survey of the teaching staff showed, the reflection of the mission and strategy of the university in various aspects of the university's activities and organizational issues according to the estimates of the teaching staff is very good - 83.3%, good - 16.7%. The question "How much does the content of the educational program satisfy your needs?" The respondents assessed - very good - 66.7, good - 33.3%. Involvement in the process of making managerial and strategic decisions is good - 54.2%, very good - 45.8%.

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

A list of Strengths / Best practices identified during the analysis is provided.

- The institution has a published quality assurance policy;
- The quality assurance policy reflects the link between research, teaching and learning;
- The EP management demonstrates the facts, ensuring the transparency of the development of the EP development plan based on the analysis of its functioning, the actual positioning of the university and the focus of its activities on meeting the needs of the state, employers, stakeholders and students;
  - EP management involves representatives of stakeholder groups, in particular employers, students and teaching staff, in the formation of the EP development plan;
  - The EP management demonstrates the individuality and uniqueness of the EP development plan, its consistency with national development priorities and the development strategy of the educational organization;
  - The EP's management provided evidence of the transparency of the Management of the educational program system;
  - The EP management ensures the participation of representatives of interested parties (employers, teaching staff, students) in the collegial management bodies of the educational program, and their representativeness is also confirmed when making decisions on the management of the educational program;
  - The university demonstrates innovation management within the EP, including the analysis and implementation of innovative proposals;
  - EP management demonstrates evidence of openness and accessibility for students, teaching staff, employers and other interested parties.

### ***EEC recommendations***

Consider the possibility of introducing disciplines in related areas and the implementation of interdisciplinary research, taking into account the existing scientific and innovative potential of the university.

*EEC notes that according to this standard "Management of the educational program" according to 8 criteria of this standard there are strong positions, according to 9 criteria - satisfactory.*

## **5.2 Standard «Information Management and Reporting»**

### *Evidence part*

A meeting with the leadership of the university, heads of structural divisions and teaching staff showed that the collection and analysis of data to assess the effectiveness of the implementation of accredited EP is carried out in accordance with the current regulatory documents, office work is carried out in accordance with the approved nomenclature of cases, the safety and archiving of documents is ensured, electronic document flow is implemented through Microsoft Outlook .

The university has its own information site and educational portal. The information site of the university (<https://www.vkgu.kz/ru>) contains information about the activities of the university, the history of the university, the educational process, scientific activities, international cooperation, etc. There is information for both students and applicants. The rector's blog is functioning.

The visit of the EEC showed that in all departments of the university in the process of collecting and processing information, the university uses modern information systems, information and communication technologies and software. The educational services of the University are supported by 11 servers, among which the Proxy server, 1C server, mail server, Moodle server, DNS server, etc. are actively used. There is Wi-Fi access in educational buildings and student homes. The speed of access to the Internet in the educational building №7 is 120 Mb / s, there are 6 WI-FI points with a speed of 15 Mb / s.

The Parasat Student Service Center (DSP) operates to serve students on the principle of one window.

The expert commission confirms that students have access to the following information resources on the library's website <http://library.vkgu.kz>: bibliographic descriptions of books, Republican Interuniversity Electronic Library (RIEL); the project of the Kazakhstan National Electronic Library (EGBF-KazNEB), NNP RK; the project of the National Subscription on the use of resources of the international databases Scopus and Web of Science; RSCI. EB "Epigraph", NEB "Cyberleninka", EB "Lan", the "AbaiDigital" project, official statistical information on East Kazakhstan, plenipotentiary envoy, Scientific social networks, personal identifiers of scientists, citation databases, DOI, "Rare fund" project , project "Regional Vestnik Vostoka", project "Tape of new books". The scientific library of the university has access to domestic databases with the Republican Interuniversity Electronic Library, as well as to foreign databases Clarivate Analytics, SpringerLink, Science, near abroad polpred.com (free), Lan (2019).

Students, employees and teaching staff of the university, when registering at the university, draw up agreements for the processing of their personal data.

To increase the interactivity of interaction with the contingent and facilitate feedback, social networks are used - VKontakte (<http://vk.com/>), facebook (<https://www.facebook.com/>), in addition, there are groups at the departments for mass distribution of information on the mobile application WhatsApp. In connection with the transition to distance education in connection with quarantine, in the implementation of accredited EP, the DOT platforms on AIS E-Univer, ZOOM, Youtube and Skype are widely used.

In all departments of the university, office work is carried out in accordance with the nomenclature of cases. The department has plans for the work of the department, a plan for research work, research work, a plan for educational work, individual work plans for teachers and IEP students, for all areas of activity there are annual reports that are approved at a meeting of the department. The results of scientific research are reflected on the website of the university.



The Commission confirms that the frequency, forms and methods of assessing the management of the EP, as well as the activities of collegial bodies and structural units, senior management, the implementation of scientific projects are regulated in a set of Regulations and Methodological Instructions posted in Russian and state languages on the university website in the section "Local regulatory University documents"

(<https://www.vkgu.kz/ru/page/lokalnye-normativnye-dokumenty-universiteta.html>).

The commission testifies to the high level of satisfaction of the EP management, teaching staff and students with the feedback system and conflict resolution, which is confirmed by the results of an anonymous survey 100% of respondents from the teaching staff category gave a positive assessment to the questions "Assess the availability of guidance to students", "Assess the availability of guidance to teachers", " Evaluate the level of feedback of the teaching staff with the management "and" How does the management and administration of the university perceive criticism in their address? " A survey of students showed that 96.8% of respondents are fully or partially satisfied with the level of accessibility and responsiveness of the university administration, and only 3.2% are partially satisfied. 96.8% of students are fully or partially satisfied with the fairness of exams and attestations, and only 3.2% expressed dissatisfaction with this parameter.

The safety and archiving of documents is ensured; work is underway on electronic document management. Internet access via WI-FI.

#### *Analytical part*

Analyzing the EP on filling the standard "Information Management and Reporting" in accredited areas, the commission notes that the university operates a system of informing employees, teaching staff and students through both paper and electronic mailing of internal and external documents to structural units. The publication of the necessary information is observed on the website of the university and faculty, and is also posted on information stands. Stakeholders are informed at meetings and sessions, also through direct mailing by e-mail.

As a source of information for students, the official website of the university and the faculty, reference terminals in educational buildings, wall stands of dean's offices are widely used, on which the schedule of training sessions, schedules of the educational process, and the schedule of exams are posted.

All information management processes are automated on the basis of the corporate computer network of the university. Local corporate messenger "Commfort" supports the exchange of individual and group messages and the exchange of files between departments and departments of the university.

The Information Technology Center ensures the protection of the software used by licensing software products; electronic resources published on the Internet - using the https protocol, corporate network - by setting up firewalls; computer equipment - installation of anti-virus tools; confidential information - access control; corporate information - using authorization and authentication tools.

A survey of students, conducted during the visit of the IAAR EEC, showed the following satisfaction of the respondents:

- the level of accessibility and responsiveness of the university administration: completely satisfied and partially satisfied - 96.9%;
- by the usefulness of the website of the educational organization in general and faculties in particular: completely satisfied and partially satisfied - 95.2%, partially dissatisfied - 4.8%;
- informing the requirements in order to successfully complete this specialty: completely satisfied and partially satisfied - 93.6%;
- the library is well equipped and has a fairly good collection of books: fully satisfied and partially satisfied - 88.9%.

At the same time, the commission notes the insufficient implementation of the principle of trilingualism when providing information through the university website in the section on



information coverage of academic mobility and adaptation of freshmen. Information on the stands on educational and educational processes is not reflected in English.

It should be noted that during the interview of the heads of structural divisions and the teaching staff of the university, the expert commission found that when the social passports of the student contingent are formed, the procedure for obtaining written permission for the collection, processing and storage of personal data is not carried out.

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

- The university ensures the functioning of the information collection, analysis and management system based on the use of modern information and communication technologies and software.

- Within the EP, there is a regular reporting system that reflects all levels of the structure, including an assessment of the effectiveness and efficiency of the activities of divisions and departments, scientific research.

- The university has established the frequency, forms and methods of assessing EP management, the activities of collegial bodies and structural units, top management, and the implementation of scientific projects.

- The EP management demonstrates the existence of a communication mechanism with students, employees and other stakeholders, including the availability of conflict resolution mechanisms.

- The university evaluates the effectiveness and efficiency of activities, including in the context of EP.

- The information collected and analyzed by the university takes into account: key performance indicators; dynamics of the contingent of students in the context of forms and types; the level of academic performance, student achievement and expulsion.

#### ***EEC recommendations***

Provide documentary evidence of the personal consent of students, employees and teaching staff to the processing of personal data.

***EEC notes that according to this standard "Information Management and Reporting", there are strong positions in 8 criteria of this standard, and in 9 criteria - satisfactory.***

### **5.3 Standard «Development and approval of the educational programme»**

#### ***Evidence part***

The university has developed an algorithm for the development and approval of educational programs (<https://www.vkgu.kz/ru/page/polozeniya-lokalnye-normativnye-dokumenty-universiteta.html>), taking into account the following legislative and regulatory documents: Law of the Republic of Kazakhstan "On Education »Dated July 27, 2007 No. 319-III ZRK; Resolution of the Government of the Republic of Kazakhstan "On the approval of state compulsory education standards of the corresponding levels of education" dated October 31, 2018 No. 604; Order of the Minister of Education and Science of the Republic of Kazakhstan "On amendments and additions to the order of the Minister of Education and Science of the Republic of Kazakhstan dated April 20, 2011 No. 152" On approval of the Rules for organizing the educational process on credit technology of education "dated October 12, 2018 No. 563; Order of the Ministry of Education and Science of the Republic of Kazakhstan "On approval of qualification requirements for educational activities and the list of documents confirming compliance with them" dated June 17, 2015 No. 391 (as amended by order of the Ministry of Education and Science of the Republic of Kazakhstan dated November 16, 2018 No. 634); Regulation "On the development of modular educational programs" dated December 28, 2018; "Regulations on the development of the catalog of elective disciplines."

The expert commission testifies that the development and approval of educational programs at the university for accredited EP have a multi-level staging:

- development of the EP project by a working group from among the teaching staff of the department and partners - employers in accordance with the National Qualification Framework, sectoral qualifications framework and professional standards (if any), state educational standard, standard curricula and standard discipline programs;
- discussion of the EP project at a meeting of the department;
- examination of the EP, its relevance, formed competencies and expected learning outcomes at a meeting of the Academic Council (project committee from 2019-2020 academic year);
- development of recommendations for making changes and additions to the OP;
- updating the EP (in terms of elective disciplines) by modules;
- adjusting the content of EP (modules to achieve learning outcomes), taking into account modern requirements;
- identifying teaching, learning and assessment methods that achieve learning outcomes; development of assessment assignments to measure learning outcomes for EP, etc.), etc.

The university has a four-level and differentiated EP quality control system with the following structure:

- 1) department (methodical section);
- 2) faculty (methodical council of the faculty);
- 3) methodical council of the university (LSU). The LSG includes the following working groups: a group for the implementation of the Rukhani Zhagyru program; a group on methodological support for the development of the UMKD; a group on educational and methodological support and monitoring of professional practice; group for the implementation of trilingual education; group for the implementation of the program for the transition to the Latin script; a group for the implementation of the updated educational content; group on the implementation of IT technologies in the educational process).
- 4) Academic Council. (minutes No. 5 of June 16, 2015; minutes No. 9 of June 27, 2016; minutes No. 7 of June 27, 2017; minutes No. 6 of June 29, 2018; minutes No. 13 of June 27, 2019. ).

The main role in the development and updating of the EP belongs to the Academic Council (project committee), which includes teaching staff, students, graduates, employers responsible for organizing practice. The activities of the Council are regulated by P EKSU 019-16 "On the Academic Council of EKSU named after S. Amanzholova "(P EKGU 050-19" Regulations on the Project Office "). The Commission testifies to the protocol confirmation (Minutes No. 1 dated January 11, 2019) of the decision to include in the QED the accredited EP bachelor's degree disciplines "Physiology and Biochemistry of Plants", "Physiology of Hydrobionts", "Physiology and Ecology of Microorganisms" at the suggestion of the employer S.M. Anuarbekov. - Director of the Altai branch of the Kazakh Research Institute of Fisheries LLP.

The inclusion of these disciplines is aimed at improving the training of personnel with the necessary skills and abilities for the labor market, which is reflected in the materials of the protocol when discussing the EP.

The quality assurance of accredited EP is carried out through mutual attendance of classes and conducting open classes, as well as during methodological decades (PR EKSU 006-18 "Regulations on the organization and conduct of methodological decades").

The commission testifies to the presence of a graduate model in educational programs at the department with the differentiation of competencies, learning outcomes and personal qualities by levels of education and areas of training. The graduate model is compiled in compliance with the principle of trilingualism. On the website in the section of the Department of Biology (<https://fenit.vkgu.kz/ru/page/informaciya-dlya-bakalavrov-kb.html>) Passports of specialties for accredited EP with basic information on goals and results are published in the open access in three languages training, the list of qualifications and positions, the qualification characteristics of the EP graduate and the intended types of professional activity. The formed competencies reflected in the graduate model correspond to the strategic goals and objectives of

the university and take into account the specifics of the regional labor market (for example, employment in national parks and reserves). When developing EP in pedagogical areas, the professional standard "Teacher" (No. 133 of June 8, 2017) is taken into account.

The ratio of the volume of the academic load for the cycles of disciplines is formed according to the State Educational Standard of the Republic of Kazakhstan: the labor intensity of EP 6B05101 / 5B060700 - "Biology" and 6B01505 / 5B011300 - "Biology" in Kazakhstani credits is 129 credits, in ECTS credits - 240. On EP 7M01505 / 6M011300 - Biology and 7M05101 / 6M060700 - Biology in ECTS is 84 credits.

To achieve the planned learning outcomes, students undergo various types of practice in profiling organizations (Table 3).

Table 3 - Bases of EP practice

| <b>EP</b>       | <b>Company / employer, contract no.</b>  |
|-----------------|--|
| 6B01505 Biology | KSU "Secondary school No. 20 named after A. Baitursynov" / No. 122 dated 30.09.2018  |
|                 | KSU "Secondary School No. 36" / No. 123 of 30.09.2018  |
|                 | Lyceum "BILIM-INNOVATION" of the Akimat of Ust-Kamenogorsk / No. 174 of 05.06.2019   |
| 7M01505 Biology | RSU "East Kazakhstan Regional Territorial Inspection of Forestry and Wildlife of the Committee of Forestry and Wildlife of the Ministry of Agriculture of the Republic of Kazakhstan" / No. 168 dated January 30, 2019 |
|                 | RSE on REM "Altai Botanical Garden" of the Committee of the Ministry of Education and Science of the Republic of Kazakhstan dated June 13, 2016  |
| 6B05101 Biology | LLP "Scientific and Production Center of Fisheries" Aubakirov B.S., No. 237, dated 05.02.2020 (for 5 years)  |
|                 | RSU "Katon-Karagai State National Natural Park" / № 127 from 30.09.2018  |
|                 | LLP "Experimental farm of oilseeds" / №12 from 31.01.2018  |
|                 | LLP "KazNIILH" / No. 124 dated 30.09.2019  |
| 7M05101 Biology | RSU "East Kazakhstan Regional Territorial Inspection of Forestry and Wildlife of the Committee of Forestry and Wildlife of the Ministry of Agriculture of the Republic of Kazakhstan" / No. 168 dated January 30, 2019 |
|                 | RSE on REM "Altai Botanical Garden" of the Committee of the Ministry of Education and Science of the Republic of Kazakhstan dated June 13, 2016  |
|                 | RSU "Tarbagatai National State Natural Park" / №195 from 03.01.2019  |

All categories of stakeholders are involved in the development and discussion of the EP, which is reflected in the minutes of the meeting of the Committee of the Academic Council for natural sciences. The expert commission testifies that students during the interview confirm their participation in the development and discussion of educational programs.

The department has positive reviews from employers and experts on the accredited EP of the head of the department of biological sciences of the Kazakh Agro Technical University named after S. Seifulin, PhD, PhD Aikesheva B.M., head of the department of general biology and genomics of the Faculty of Natural Sciences of the Eurasian National University named after L.N. Gumilyov Professor, Academician of the National Academy of Sciences of the Republic of Kazakhstan Bersimbay R.I., Head of the Department of Biology of the State University named after Shakarim, Candidate of Agricultural Sciences, Associate Professor Sydykova R.A.,

Director of KSU "Secondary School No. 20 named after Akhmet Baitursynov "Akimat of Ust-Kamenogorsk city Sadykov BO, Director of KSU" Secondary School No. 20 named after Akhmet Baitursynov "Akimat of Ust-Kamenogorsk city Bekturgenev A., Director of the RSU" West Altai State Natural Reserve "Tokymtaeva AT , General Director of the RSE "Altai Botanical Garden" Suleimenova A.N., Director of the Zhambyl School for Gifted Children M.Z. Iksanov, Director of the KSU "East Kazakhstan Humanitarian Institute" olledge "Kurmanov FS, head of the Altai branch of the Scientific and Production Center of Fisheries" Aubakirov BS, head of the East Kazakhstan regional quarantine laboratory Gubareva NS and etc.

According to the programs of incoming academic mobility in the context of accredited EP, the following scientists visited the university:

2015-2016 academic year: Doctor of Biology Choiman Dulamsuren (Geottingen University (Germany); Doctor of Biological Sciences, Professor Mukhitdinov N.M. (Al-Farabi Kazakh National University);

2016-2017 academic year: Doctor of Biology Jiri Hlahula (Czech Republic); Doctor of Biological Sciences, Professor Mukhitdinov N.M. (Kazakh National University named after al-Farabi)

2017-2018 academic year: Professors Piotr Szkudlarz and Zbigniew Celka (Adam Mickiewicz University in Poznan (Poland);

2018-2019 academic year: Doctor of Biological Sciences, Professor S. Babenko (Tomsk, RF); Piotr Szkudlarz (Adam Mickiewicz University in Poznan (Poland).

### ***Analytical part***

Based on the materials studied and interviews with the main categories of stakeholders, the commission came to the conclusion that the procedure for developing and approving the EP meets the IAAR standards. The EP management presented factual evidence of the participation of teaching staff, students and employers in the development of EP, ensuring their quality, the availability of developed models of the EP graduate.

The commission testifies that for the accredited EP, an examination of the EP content is carried out, systematic work is carried out to qualitatively achieve learning outcomes both in general for a specific educational program, and in the context of individual disciplines and practice programs.

The conclusions of the expert commission on this standard are confirmed by a questionnaire survey of students where 73% of respondents are completely satisfied, and 25.4% are partially satisfied with the overall quality of educational programs.

At the same time, the commission notes the absence of joint and double-degree educational programs with partner universities.

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

- P management ensures that the developed EP meets the established objectives, including the expected learning outcomes.

- The EP management ensures the availability of developed models of the EP graduate, describing the learning outcomes and personal qualities.

- The EP management demonstrates the conduct of external examinations of the EP.

- The qualifications obtained upon completion of the EP are clearly defined, explained and correspond to a certain level of the NQF.

- EP management determines the influence of disciplines and professional practices on the formation of learning outcomes.

- The EP management provided evidence of the participation of students, teaching staff and other stakeholders in the development of the EP, ensuring their quality.

### ***EEC recommendations***

Consider preparing students for professional certification.



Strengthen international ties in the direction of developing joint educational programs with foreign educational organizations.

*EEC notes that according to this standard " Development and approval of the educational program", there are strong positions in 6 criteria of this standard, and in 5 criteria - satisfactory.*

#### 5.4. Standard «On-Going monitoring and periodic review of educational programmes»

##### *Evidence part*

Monitoring and evaluation of educational programs at the University is carried out at the level of the Department, faculty and academic Council of the University. The Commission confirms that when monitoring and updating accredited educational institutions, the University is guided by strategic goals in the field of quality and takes into account automatically processed parameters in the system of the Parasat student service center (<https://www.vkgu.kz/ru/page/portal-centr-obluzhivaniya-studentov-parasat.html>), which include: information about the number of students: (6B05101/5B060700-Biology – 72, 6B01505/5B011300 Consider preparing students for professional certification.

Strengthen international relations in the direction of developing joint educational programs with foreign educational organizations.

Biology – 170, 7M01505/6M011300 – Biology, 7M05101/6M060700 – Biology – 25); the level of academic performance and quality of knowledge achievements, students and statistics on their movement.

Satisfaction of society's consumers, employers, students, etc. It is taken into account when receiving external feedback from employers and when discussing the EP with the participation of all categories of stakeholders.

The availability of educational resources and student support services is tracked on the univer.vkgu platform.kz and the distance learning portal <http://edu.vkgu.kz/>

Students' progress is tracked based on the results of current, mid-term, intermediate and final control, independent work of students, as well as on the results of characteristics from the place of practical training. During the interview, employers gave a high assessment of the level of training of students and their professional competencies.

An important criterion for evaluating the effectiveness of the EP is the positive dynamics of the results of external evaluation of students' academic achievements, presented in the context of accredited EP in table 4 and 100% employment of graduates.

Table 4 – results of the HEA by accredited EP

| EP name            | The average score for 2016-2017 уч.г. | The average score for 2017-2018 уч.г. | The average score for 2018-2019 уч. г. | The average score for 2019-2020 уч. г. |
|--------------------|---------------------------------------|---------------------------------------|--|--|
| 5B011300 - Biology | 79,84                                 | 91,4                                  | 88                                     | 97,94                                  |
| 5B060700 - Biology | 101,75                                | 102,5                                 | 99,9                                   | 105,28                                 |

The Commission notes the annual update of the EP by updating the QED (table 5).

Table 5 - new QED disciplines

| Year of QED editing | New discipline  |
|---------------------|---|
|                     | EP 6B05101/5B060700-Biology   |
| 2016 y.             | "Organization and planning of biological research", "Dendrology", "fundamentals of Hydrobiology", "Phytodesign and Floristics", |



|                               |   |
|-------------------------------|---|
|                               | "fundamentals of herbalism", "Hydrobiology and ichthyology", "fundamentals of taxidermy", "ornamental fish farming", "Aquatic biodiversity and aquaculture", "Ichthyology and ichthyopathology", "Biological methods of water quality assessment", "ecological expertise of water bodies" |
| 2017 y.                       | "Parasitology", "Workshop on ecology and environmental protection", "Fundamentals of conservation", "Helminthology", "Hydroecology", "Limnology", "environmental monitoring of water resources»   |
| 2018 y.                       | "Biological monitoring of the environment", "Hydrobiology", "rational use of biological resources", "concept of modern natural science", "Fundamentals of conservation", "Specially protected natural territories", "Phytopathology",   |
| 2019 y.                       | "Workshop p on ecology and environmental protection"  |
| EP 6B01505/5B011300-Biology   |   |
| 2016 y.                       | "Phytopathology and plant protection", "Biodiversity and sustainable use of biological resources", "Physiology of hydrobionts", "hatcheries fish", "Biogeography of Kazakhstan and EKR"   |
| 2017 y.                       | EP 6B01505/5V011300-Biology   |
| 2018 y.                       | "Latin language", "Bioindication and biotesting of environment", "Biotechnology", "Fundamentals of chemistry", "Organisms and environment", "Mathematical methods in biology", "Modern educational technology in the teaching of biology", "Genetics the basics of breeding»              |
| 2019 y                        | "Physiology and biochemistry", "Algology and Mycology", "Biotechnology basics of plant", "Organisms and environment", "Methods of solving genetic problems",  |
| EP 7M05101/6M060700-Biology   |   |
| 2018 y.                       | "Especially protected natural territories", "Workshop on ecology and environmental protection", "Population ecology"  |
| 2019 y.                       | "Strict grading system in schools   |
| EP 6M011300/7M01505 – Biology |   |
| 2019 y.                       | EP 7M05101/6M060700-Biology   |

### *Analytical part*

On the cluster expert Board notes that changes in the EP reflect the dynamics of the educational environment and logistical capabilities of the University, and take into account the practical needs of the region, based on ongoing University research, thereby implementing the

principle of "education through science". For example, taking into account the region's great need for healthy seed potatoes, a laboratory of plant biology and biotechnology was created on the basis of S. Amanzholov EKSU. On the basis of this laboratory, research on the topic 019 "Service for the dissemination and implementation of innovative experience" was successfully completed: "Innovative technology for the production of superelites of super-early and early potato varieties on healthy lands of the East Kazakhstan region" and "Introduction of innovative methods of biotechnology in seed production of major agricultural crops to obtain a healthy and productive elite»

Conducting research in these areas allowed US to introduce the disciplines "plant Physiology and biochemistry" in EP 6B05101/5B060700-Biology; in EP 6B01505/5B011300-Biology - "Biotechnology", "Genetics with the basics of breeding", "plant Physiology and biochemistry", "Biotechnology with the basics of crop production"; in master's EP - "Biotechnological and genetic methods in breeding".

The survey of students showed a high level of satisfaction with the overall quality of educational programs (73% are fully satisfied and 25.4% are partially satisfied). 74.6% are fully satisfied with the training methods and 22.2% are partially satisfied.

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

- The University monitors and periodically evaluates the EP in order to ensure that the goal is achieved and meet the needs of students and society. The results of these processes are aimed at continuous improvement of the EP.

- Monitoring and periodic evaluation of the EP considers in particular: the educational environment and support services and their compliance with the goals of the EP.

- The University and the management of the EP provided evidence of participation of students, employers and other stakeholders in the revision of the EP.

- The management of the EP provides a review of the content and structure of the EP, taking into account changes in the labor market, the requirements of employers and the social request of society.

#### ***The recommendations of the EEC***

Ensure that the EP's assessment is clearly reasoned and complete in the external reviews and reviews provided.

Publish the changes made to the EP on the University's website, in order to inform all interested parties in a timely manner.

***The EEC notes that according to this standard "Continuous monitoring and periodic evaluation of educational programs", there are strong positions for 4 criteria of this standard, and satisfactory positions for 6 criteria.***

### **5.5. Standard « Student-centered learning, teaching and performance assessment»**

#### ***Evidence part***

The EP management ensures equal opportunities for students, regardless of the language of instruction, to form an individual educational program aimed at developing professional competence. Regardless of the language of instruction, students are equally available syllabuses, umkd, scientific and educational literature, SRS, SRSP, consultations and information resources. On the official website of the University, students and visitors can get acquainted with the admission rules, regulatory documentation on the organization and methodological support of the educational process, transfer from one course to another, from other universities, the procedure for transferring credits mastered in other universities, deductions, etc. Graduate departments ensure the harmonious development of students, taking into account intellectual development and individual characteristics.

The EP management aims to ensure that different groups of students and their needs are addressed by giving them the opportunity to choose alternative subjects and using different forms and methods of teaching and learning. Before the start of the EP, the survey data and

electronic databases of students are processed and appropriate adjustments are made based on these data. The University also promotes support for all groups of students, including those with disabilities. The policy for implementing inclusive education is published as part of the Academic policy and is freely available on the University's website.

In order to implement student-centered learning, various teaching methods and technologies are used at the departments, taking into account the variety of forms of information assimilation. Active and innovative teaching methods have been introduced in the educational process. Practice problem lectures focused on setting research tasks; abstract presentation of the material, accompanied by the preparation of reference notes and diagrams that are the basis for organizing independent work; study of the material in blocks; advanced training; wide use of handouts, with tasks for IWS, etc. Leading teachers of the Department (Ph. D. Kitapbaeva A. A., Ph. D. Sharipkhanova A. S., Ph. D. Iginova Zh.T., Ph. D. Sadykanova G. E.) organize work in a group, mainly using interactive methods in the form of discussions and debates, round tables, business games, situation modeling, colloquiums, lessons-conferences, presentations, discussions, group reports, etc.

Monitoring the effectiveness of using interactive and innovative teaching methods is carried out through mutual visits to teaching staff classes and discussion of the results at Department meetings, which is reflected in the journal of mutual visits, according to the schedule of mutual visits.

Teaching staff of the EP is working on the development of methods of teaching disciplines. Thus, training manuals have been developed: "Microbiology Virology negadir me pennen sertanly gmaster" (J. T. Iginova, J. K. Karataeva, 2017), "Biologian oito destines" (A. S. Cherepanova, Z. S. Dautova, 2018), "Guartela Mazda biologian oito destines" (A. S. Cherepanova, Z. S. Dautova, 2019).

Feedback on the use of various teaching methods and evaluation of learning outcomes is implemented through a questionnaire among students "student satisfaction with the quality of educational services", through the rector's blog, directly when contacting the teacher through the eUniver system.

Students' autonomy is realized through independent work with information resources: the scientific library (<https://library.vkgu.kz/ru>), electronic scientific databases Web of Science, Scopus, etc. The plan of independent work is developed by the teacher and is included in the structure of the syllabus. Students can download syllabuses in electronic format via the eUniver system. The main forms of organization of IWS are: study of the passed lecture material on notes, textbooks and manuals; independent development of the material; study of additional literature and conceptual apparatus; working with sources; working with training programs, electronic versions of the umcd; preparing for practical, laboratory and seminar classes; solving problems; drawing up diagrams, diagrams; conducting research within the framework of R & d/R & D; performing scientific projects, etc.

The procedure for responding to students' complaints is carried out at the University through the rector's blog, "trust boxes" that are installed in each academic building, as well as through individual conversations with the management of the T

P.

Mechanisms for evaluating learning outcomes, including appeals, are consistent, transparent, and objective. Published on the website and included in the structure of Academic policy, section Control and policy of evaluation of academic achievements of students. The policy of evaluating students' academic achievements is based on the principles of academic integrity, unity of requirements, objectivity and fairness, openness and transparency.

Admission of students to the examination session is carried out in accordance with the electronic admission sheet, which automatically generates the admission rating score, which is calculated as the arithmetic average of the sum of all current and boundary control scores received during the academic period.

During the interim certification, exams can be conducted in written, oral, and computer-

based testing. The forms of examinations are approved for the next academic year in June of the current academic year by the decision of the Academic Council on the recommendation of the heads of departments.

The criteria for evaluating the student's response to the exam, as well as the form of its conduct, are brought to the attention of students before the exam begins. Evaluation criteria are developed by the teacher (the compiler of exam tickets) for each specific discipline based on the template of criteria for evaluating students' academic achievements on a point-rating scale, described in The EKSU 032-18 "On the procedure for organizing and conducting current monitoring of academic performance, intermediate and final certification of students at the EKSU named after S. Amanzholov". All participants in the intermediate certification process are required to strictly observe the "Rules of academic integrity", "code of honor of the teacher of The S. Amanzholov EKSU", "Code of honor of the student of the S. Amanzholov EKSU". Test materials are developed by staff of the Department in the form of examination papers / tests to computer-based testing and, together with the criteria for evaluating written / oral responses of students, approved at faculty meeting in November of this year. The teacher-developer is responsible for the quality of control and measurement materials, and the head of the Department is responsible for their timely approval.

Transparency of the knowledge assessment procedure is ensured by posting current assessments in electronic journals, intermediate and final results on the eUniver portal. Thus, each student can see the status of their academic achievements (eUniver in the Transcript section) and discuss them with advisors, faculty and Department management. Appeal against the results of academic performance of students is carried out through the work of the appeal Commission.

The University ensures that the procedures for evaluating the learning outcomes of OP students correspond to the planned learning outcomes and program goals. The list of exam questions is developed by the lecturer in accordance with the thematic plan of the discipline. Exam questions are included in the syllabus structure and are approved by the head of the Department. The syllabus, in turn, is considered and approved by the decision of the Department meeting, the decision of the methodological Council of the University, agreed with the representative of the employer and approved by the Dean of the faculty. Thus, the participation of the collegial bodies of the University and the employer ensures that the assessment procedures in the framework of the OP disciplines correspond to the planned learning outcomes and program goals.

The objectivity of assessment procedures consists in the scientifically-based content of diagnostic tests (tasks, questions), diagnostic procedures, accurate, adequate assessment of knowledge and skills. Along with scientific and methodological requirements, there are General methodological assessment requirements based on the principles of credit technology of training. This is a cumulative point-rating rating system. Correlation of quantitative and qualitative evaluation indicators, i.e. implementation of the principle of objectivity is carried out by introducing a 100-point scale for assessing the quality of mastering each section and topic of the discipline under study as part of the current control and exam results, followed by translation into the allotted share of the final assessment.

The topics of theses/master's works are developed taking into account current issues of the educational process in various areas of education, are updated annually and approved in accordance with the established procedure (for example, the Order on approval of dissertations # 168-St from 31.01.2020, the Order on approval of theses # 191-St from 11.02.2020). The most qualified part of the University's teaching staff is involved in the management of theses/master's works. When preparing theses/master's theses, students use materials obtained during the period of industrial and pre-graduate practice, as well as use the results of experimental research and research projects.

Analysis of learning success is carried out by reporting on the results of the sessions (given the absolute achievement, quality of teaching, the results of state certification – completed



theoretical studies approved for state exam and defense of diploma works, passed on "excellent", "good", "satisfactory", "unsatisfactory", received a diploma with honors), preparation and submission to the authority of statistical data, analysis of the causes of underachievement.

Criteria and methods of assessment under OP posted in the syllabus, which before the beginning of training are given to students, criteria and evaluation methods are published in Academic policy and is available on the University website.

### *Analytical part*

During the visit, the EEC experts on this standard came to the following conclusions.

In order to improve the quality of training and instill professional competencies, the Department is working to provide students with the opportunity to choose an individual learning path with the right to choose disciplines, which was confirmed by students during the interview. The Commission noted that students confirmed the existence of an appeal mechanism. Also, in the process of interviewing students and teaching staff, active use of the University's website was revealed, which confirms its effectiveness.

In General, the educational process meets the standards of student-centered learning. However, the lack of a guide for students in Kazakh was revealed, and there is also an imbalance in the provision of information on the site for students who speak Russian, Kazakh and English.

The management of the EP, in agreement with employers, introduces new disciplines in the OP that meet modern production requirements. At the same time, the WEC notes that there is insufficient volume of its own research of the teaching staff in the field of teaching methods of updated disciplines.

During the interview, students focused on the need to introduce additional foreign languages into the educational process, especially for students who studied at school, such as German or French. This will give equal opportunities for the development of language skills of different groups of students.

In General, both students and teaching staff expressed positive opinions about the implementation of accredited programs, which was later confirmed by the results of the survey: students believe that the University provides equal opportunities for all students – 68.3%, also Express full satisfaction with the quality of teaching 81.0%, the fairness of exams and certification – 77.8%, conducted tests and exams – 79.4%.

### *Strengths/best practices*

- The University ensures consistency, transparency and objectivity of the mechanism for evaluating learning outcomes for each EP, including appeal.

- The University ensures that the procedures for evaluating the learning outcomes of students of the EP are consistent with the planned learning outcomes and program goals. Evaluation criteria and methods in the framework of the EP are published.

### **The recommendations of the EEC**

Provide wide access, including through the University's website, to auxiliary materials (guide, etc.) for students of all levels of education in Kazakh, Russian and English.

Conduct their own research in the field of teaching methods of educational disciplines of the EP.

Consider providing students with a choice of the foreign language they are studying.

***The EEC conclusions on the criteria for accredited EP: strong – 2, satisfactory – 7, suggest improvements – 1.***

## **5.6 Standard «Students»**

### *Evidence part*

The admission policy at S. Amanzholov EKSU is regulated by the following legal acts: Law of the Republic of Kazakhstan No. 319-III "On education" dated July 27, 2007; order of the Minister of education and science of the Republic of Kazakhstan dated October 31, 2018 No. 600 "On approval of Standard admission rules for training in educational organizations



implementing educational programs of higher and postgraduate education"; order of the Minister of education and science of the Republic of Kazakhstan dated October 8, 2018 No. 548 "On approval of the Rules for selecting applicants for participation in scholarship programs". The policy of forming a contingent of students at the University is regulated by a documented procedure and is part Of the academic policy of the University, approved by the rector and published on the University's website.

Students are the main consumers of educational services, so their interests are at the head of the implementation of educational programs. The educational activities of the University are based on an academic policy aimed at ensuring the needs for quality education for students: independence, personal and professional growth, self-development and self-esteem.

Data on students are shown in tables 6 and 7. For the past 5 years the number of students has increased by 15.8%, the number of undergraduates increased by 47%.

Table 6 - number of students

| Academic year | EP  | Total | including           |      |                   |      |                        |      |                   |      |
|---------------|---|-------|---------------------|------|-------------------|------|------------------------|------|-------------------|------|
|               |   |       | full-time education |      | distance learning |      | face-to-face using DOT |      | evening education |      |
|               |   |       | grant               | paid | grant             | paid | grant                  | paid | grant             | paid |
| 2015-2016     | 5B011300 -<br>Biology                           | 135   | 39                  | 48   | 2                 | 12   | 0                      | 0    | 0                 | 34   |
|               | 5B060700 -<br>Биология                          | 67    | 14                  | 53   | 0                 | 0    | 0                      | 0    | 0                 | 0    |
| 2016-2017     | 5B011300 -<br>Biology                           | 111   | 48                  | 29   | 1                 | 0    | 0                      | 0    | 0                 | 33   |
|               | 5B060700 -<br>Biology                           | 71    | 19                  | 52   | 0                 | 0    | 0                      | 0    | 0                 | 0    |
| 2017-2018     | 5B011300 - Б<br>Biology                         | 137   | 70                  | 32   | 0                 | 0    | 0                      | 0    | 0                 | 35   |
|               | 5B060700 -<br>Biology                           | 69    | 21                  | 48   | 0                 | 0    | 0                      | 0    | 0                 | 0    |
| 2018-2019     | 5B011300 -<br>Biology                           | 160   | 89                  | 32   | 0                 | 0    | 0                      | 0    | 0                 | 39   |
|               | 5B060700 -<br>Biology                           | 74    | 33                  | 41   | 0                 | 0    | 0                      | 0    | 0                 | 0    |
| 2019-2020     | 5B011300 -<br>Biology /                         | 172   | 98                  | 39   | 0                 | 0    | 0                      | 29   | 0                 | 6    |
|               | 6B01505 -<br>Biology                            |       |                     |      |                   |      |                        |      |                   |      |
|               | 5B060700 -<br>Biology /<br>6B05101 -<br>Biology | 62    | 37                  | 25   | 0                 | 0    | 0                      | 0    | 0                 | 0    |

Table 7 - number of undergraduates

| The learning environment     | EP                  | 2015-2016 | 2016-2017 | 2017-2018 | 2018-2019 | 2019-2020 |
|------------------------------|---------------------|-----------|-----------|-----------|-----------|-----------|
| According to the state order | 7M05101-<br>Biology | 7         | 4         | 5         | 6         | 4         |

|               |                 |           |           |           |           |           |
|---------------|-----------------|-----------|-----------|-----------|-----------|-----------|
|               | 7M01505-Biology | 7         | 9         | 12        | 10        | 9         |
| On paid basis | 7M05101-Biology | -         | 6         | 5         | 6         | 5         |
|               | 7M01505-Biology | 3         | 3         | -         | 1         | 7         |
| <b>Total</b>  |                 | <b>17</b> | <b>22</b> | <b>22</b> | <b>23</b> | <b>25</b> |

Information on the rules and conditions of admission to bachelor and master courses, the list of necessary documents, the list of specialties, regulations, announcements, etc. are available on the official website of the University in the "Applicant 2020" (<https://www.vkgu.kz/ru/page/postupayushchemu.html>), Pochemuchka freshman, which contains information about the administration of the University and structural subdivisions, hours of operation and contact telephone numbers; Academic policy, where approved policies of the educational process. For adaptation of students admitted in 1st year, organised week and a number of activities in accordance with SFAS No. 54 "On holding of measures on adaptation of students-freshmen to the system of education in EKSU them. S. Amanzholov" (25.08.2017 g) organized by the Dean of faculty, head of Department, advisors and curators. Advisors and curators in the introductory lesson introduces students to rules of credit technology, the system of assessment, rules of translation and calculation of GPA, are introduced to the departments, rules, regulations and by-laws, rules of living in dormitory, by the code of corporate culture and active in University clubs and student organizations of self-government, with the mode of operation of the library, instructions users of reading rooms and subscription, electronic information retrieval, guidebook. Based on the information received, students form an IEP, build educational trajectories, using the opportunity to choose both a teacher and a discipline, taking into account their needs for obtaining appropriate competencies within the chosen specialty.

In order to integrate into the international educational space, improve the quality of knowledge, compare and recognize educational programs with those of foreign universities, and strengthen internationalization, the University implements academic mobility of students. For example, in the 2015-2016 academic year on academic mobility left 3 students (Poland, Czech Republic) in the 2016-2017 academic year – 2 students (Poland), 2017-2018 academic year – 3 students (for internal mobility), 2018-2019 academic year – 3 students (for internal mobility). Tustubayeva Shynar is a 2nd-year master's student of the specialty 7M05101 (6M060700) - Biology in the framework of the Erasmus+ Staff Mobility for Teaching Assignments (STA) program, studying academic mobility at the Adam Mickiewicz University (Poznan, Poland). The University provides graduates with documents confirming their qualifications, including the achieved learning outcomes, as well as the context, content, and status of their education and certificates of completion. A student who has passed the final certification and has confirmed the development of higher education is awarded a bachelor's degree by the decision of the certification Commission and is issued a diploma with an Appendix on a free basis within five days from the date of issuing the order on graduation. With the aim of fulfilling the commitments undertaken by Kazakhstan in the framework of the Law "On ratification of the Convention on the recognition of qualifications in higher education in the European region" (Lisbon, 1997), the implementation of the Bologna process and facilitate the recognition of qualifications of Kazakh graduates with the continuation of education and (or) the employment of each graduate, along with the main document on education issued a Diploma Supplement. Diploma Supplement includes 8 sections:

- 1) information identifying the holder of the qualification;
- 2) information identifying the qualification;
- 3) information about the level and duration of the qualification;
- 4) information about the program and the results obtained;
- 5) information about the qualification function;

- 6) additional information;
- 7) app certification;
- 8) information about the national higher education system Diploma Supplement for undergraduate and graduate students is prepared by the graduate departments and issued to each graduate in English automatically and free of charge.

The University actively cooperates with the main employers in the organization of practice bases, development of educational programs and employment. The University has signed contracts with more than 10 practice bases.

During interviews and visits to practice bases, employers gave a positive assessment to graduates and interns of the University, many of whom occupy good positions and show good personal and professional growth. 100% of graduates of EP 5B011300 (6B01505) – Biology are employed in their specialty. At the moment, D. N. Sapakov is the Director OF nish Kostanay, A. Askarova is the Director of “Secondary school No. 6” . Ust-Kamenogorsk, bolgibayeva A. is a biology teacher at the East Kazakhstan humanitarian College in Ust-Kamenogorsk, Mukasheva K. is the head of the methodical Association of biology and geography NIS of chemistry and biology in Ust-Kamenogorsk, also Tungushbaev A., Konakbaev, A., Askarov A. are the teacher-moderators NIS of chemistry and biology in Ust-Kamenogorsk.

Graduates of OP 5B060700/6B05101 – Biology are also 100% employed. At the moment, Aubakirov B. S. is the Director of the LLP "research and production center of fisheries", Bielekova A. is the head of laboratory of LLP "pilot farm of olive cultures", Anuarbek S. M. is Director of LLP "Bukhtarma spawning-rearing farm", Gubareva N. With. is the head of Eastern Kazakhstan regional quarantine laboratory branch GU "the Republican centre of quarantine of plants".

The management of the EP actively encourages students to self-education and development outside the main program, which was repeatedly emphasized during the meeting with students of the EP. Scientific work with students is organized within the framework of student circles, as well as in the preparation of graduation papers. At the Department there are scientific circles of students "Orchid" (heads of associate professors of the Department, Ph. D. Iginova Zh.T., sharipkhanova A. S.), "plant Biotechnology - start in science" (head of master of biology, senior lecturer Komekova G. K) and the bedvocher club (head of Ph. D., Professor Prokopov K. P). Collection of field materials, setting up experiments and experiments are carried out in the educational laboratories of the Department, as well as during field practices and expeditions. The results of students ' research papers are discussed at the meetings of the groups. Scientific results are published in the collections of scientific conferences in the form of abstracts and articles. Students of accredited universities also take part in scientific competitions. So, a student of the specialty "5B011300 - Biology" kuderina S. B. took the 1st place in the Republican competition of NIRS. Warriors D. Students, Held R. participated in the Republican competitions of students and were awarded with letters of thanks, in the Republican competition "Gylym sharainasy" Tustibaeva sh, Batyrov D., Zhunusov R. took 1st and 2nd places (2018, 2019). students of accredited OP actively participate in the week of science and creativity, the competition "Granite of science", "Zhastalap" which are organized annually by teachers of the Department. The activity of students ' participation in scientific Olympiads, competitions and conferences is shown in table 8.

Table 8 - students ' participation in Olympiads, competitions, and scientific conferences

| <b>Academic year</b> | <b>participation in Olympiads</b> | <b>Participation in contests</b> | <b>Participation in scientific conferences</b> | <b>Student publications</b> |
|----------------------|-----------------------------------|----------------------------------|--|-----------------------------|
| 2015-2016            | 3                                 | 6                                | 1  | 26                          |
| 2016-2017            | 1                                 | 11                               | 1  | 121                         |
| 2017-2018            | -                                 | 14                               | 1  | 44                          |
| 2018-2019            | -                                 | 16                               | -  | 35                          |
| 2019-2020            | -                                 | 6                                | -  | 26                          |

To implement research projects, students also have access to such resources as The scientific and educational complex "Pearl of the East", which includes the Bazhanov Museum of nature, the study-Museum of Geology, and the herbarium.

The Department of educational work and social Affairs and the Committee on youth Affairs are working to maintain a healthy moral and psychological climate in the student body. Students participate in the work of some collegial management bodies, for example, minutes No. 1 of the meeting of the Committee on natural Sciences of the Academic Council dated 11.01.2019. For the full disclosure of the creative potential of students' personality, KVN competitions, various festive events, creative evenings, competitions are held annually at the University, in which students of the Department take an active part. The University has clubs and associations: the debate club, the youth wing "Zhas Otan" under the party "Nur Otan" of the Republic of Kazakhstan, the Student police assistance unit "Kyran", the volunteer movement "Meyirim" of S. Amanzholov EKSU, The club for girls "Zerde" of S. EKSU. Amanzholova, youth theater-Studio "Avangard", dance ensemble "Azharay", Zhaydarman, creative youth group "Shamshyrak", student theater "Shabyt", dombra circle "Zhadiger» (<https://www.vkgu.kz/ru/page/kluby-obedineniya-po-interesam.html>).

For the sports development of students, the University offers a sports club, a student fitness center named after A. N. Trunov, a swimming pool "Chaika". On the basis of the University's sports facilities, sports sections are organized: volleyball, basketball, mini-football, swimming, etc. (<https://www.vkgu.kz/ru/page/sportivnye-sekcii.html>).

S. Amanzholov EKSU creates conditions for supporting gifted students by providing discounts, grants for training - there are two types of personal intra-University grants, stimulating creative activity, which is confirmed by the results of meetings with students of the EP. In addition, vacant educational grants released in the process of obtaining higher or postgraduate education are awarded on a competitive basis to students on a paid basis for groups of educational programs, including gifted students. The competition is held based on the results of intermediate certification based on the average GPA score. In order to support talented young people, the University initiated the appointment of named scholarships (named after Abay Kunanbayev, Sarsen Amanzholov, etc.). applicants for scholarships are school graduates who scored 130 or higher points on the UNT results, who indicated first and second in the application for participation in the competition for a state educational grant in the List of universities of the S. Amanzholov EKSU. Scholarship named after Abai in the amount of 50 000 KZT; the gold medal of a name of Abay; the Scholarship is named for S. Amanzholov: in the amount of 25,000 tenge; gold medal named after S. Amanzholov. Scholarships are awarded for the entire period of study, starting from the first year. Receiving a named scholarship is not an obstacle to receiving other types of scholarships.

In addition, gifted students are actively involved in research work, including paid on the basis of grant funding for the period 2020-2022 gg. masters Ekimova T., Karatayev A., Tulubaev S., G. Dalabaeva work on the program grant funding for young scientists on the theme "Development and implementation of innovative technologies aimed at making the anti-virus resistance crop varieties", under the guidance of PhD Stopped M. Y. with a grant of 61 million tenge. EEC notes that these same talented young scientists (Tustubayeva sh., dolanbayeva G.), while still students, in 2015 – 2017 were involved in the work on the scientific project "Selection of adapted and highly productive potato varieties of their own selection and CIS countries for the East Kazakhstan region" under grant funding with a budget of 12 million tenge under the guidance of PhD Kuzmina G. N. there are other examples of participation of gifted students in funded scientific projects (see The Standard teaching staff).

Gifted and talented students take part in academic mobility programs. For example, in the 2016-2017 academic year, Ramazanov Adil a 2 - year student of EP 6B01505/5B011300-Biology, and Hasenova Adeline, a 2-year student of OP 6B05101/5B060700-Biology, were trained in the academic mobility program at the Catholic University of Lublin (Poland). When



selecting applicants for mobility, the student's academic performance is taken into account.

The University provides extensive social support for gifted students. According to the results of training, students receive discounts and benefits for tuition fees. So, Serikbolova A. S. (6B01505, 1st year, order No. 121 of January 24, 2020), Sergazin A. A. (6B01512, 1st year, order No. 121 of January 24, 2020), Filimonov I. S. (5B011300, 3rd year, order 307-t of March 12, 2020) were awarded the released educational grants. According to order 925-t of August 29, 2019 Urukpayev I. A. (EP 6B05101), Kaliev O. S (EP 6B01512) received a reduction in payment for the first year of training in the amount of 50,000 tenge.

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

The Commission during the analysis of the contingent of students revealed a tendency towards its increase. Over the past 5 years, the number of students has increased by 15.8%, and the number of undergraduates has increased by 47%. The Commission notes that, despite the existence of an alumni Association at the University, the materials provided to the Commission do not reflect the Association's influence on the development and implementation of accredited programs.

Analyzing the University's website, the Commission notes its positive changes, but at the same time, concludes that the site is not sufficiently full in English. The EC recommends completing the English-language version of the site in order to better inform, in particular, foreign students who want to get an education at a University, including academic mobility. Also, the site does not provide information about subjects taught in English, which negatively affects the processes of incoming academic mobility, especially from foreign countries. As a result of the meeting with students, the VEC notes the fact that students do not know how the procedure for recognizing the results of academic mobility of students takes place, and this information is not reflected on the site. Despite the wide opportunities to travel abroad to receive educational services, the academic mobility of EP students remains at the level of 2-3 students per year and requires activation. In addition, in 2019 and 2018, only internal mobility is observed, there were no trips of students abroad (with the exception of internships for undergraduates).

According to the survey results, 76.2% of students Express full satisfaction with the availability of academic counseling; the availability of health services – 73.0%; the availability of library resources – 79.4%; existing educational resources – 76.2%; the overall quality of educational programs – 73.0%; the relationship between student and teacher – 82.5%.

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

- The University demonstrates the policy of forming a 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) are defined, approved, and published.

- The University provides graduates with documents confirming their qualifications, including the achieved learning outcomes, as well as the context, content, and status of their education and certificates of completion.

- The EP management actively encourages students to self-education and development outside the main program (extracurricular activities).- Вуз демонстрирует наличие механизма поддержки одаренных обучающихся.

#### ***The recommendations of the EEC***

Ensure that a trilingual version of information for foreign students is published on the University's website.

Post information about subjects taught in English on the University's website.

Pay attention to informing students about the current rules of procedures for academic mobility, including the mechanism for recognizing the results of academic mobility of students.

Increase the number of students involved in external and internal academic mobility in the context of accredited programs.

***The EEC conclusions on the criteria for accredited OP: strong – 4, satisfactory – 6, suggest improvements – 2.***

## 5.7 Standard «Teaching staff»

### Evidence part

The University's personnel policy is transparent and available on the University's website. The management of the EP demonstrates the application of the University's personnel policy for teaching staff involved in the implementation of the EP. Recruitment is based on an analysis of the needs of the educational program, which results in a competition for filling vacant positions. The competition to fill vacant positions of teaching staff and researchers at the University is held in accordance with the current legislation. The announcement of the competition and acceptance of documents for participation in the competition is posted on the University's website in the Vacancies section (<https://www.vkgu.kz/ru/page/vakansii.html>).

Indicators on the qualitative and quantitative composition of teaching staff confirm the availability of human resources necessary for the implementation of the entire range of educational programs and corresponding to the qualification requirements for licensing educational activities. The degree of PPP on EP 6B01505 (5B011300)-Biology is 58%, on EP 6B05101 (5B060700)-Biology - 53%, on EP 7M01505 (6M011300)-Biology and 7M05101 (6M060700)-Biology - 100%. The quantitative and qualitative composition of PPP is shown in table 9.

Table 9 – quantitative and qualitative composition of PPP

| Academic year          | Total | Staff | with a doctor of science degree | with a scientific degree of candidate of Sciences | with a PhD degree | % of students with a degree |
|------------------------|-------|-------|---------------------------------|---|-------------------|-----------------------------|
| <b>6B01505 Biology</b> |       |       |                                 |   |                   |                             |
| 2019-2020              | 54    | 53    | 1                               | 26  | 4                 | 58,49%                      |
| 2018-2019              | 54    | 53    | 2                               | 25  | 3                 | 56,60%                      |
| 2017-2018              | 53    | 52    | 2                               | 25  | 2                 | 55,77%                      |
| 2016-2017              | 52    | 52    | 2                               | 25  |                   | 51,92%                      |
| 2015-2016              | 54    | 54    | 3                               | 25  |                   | 51,85%                      |
| <b>6B05101 Biology</b> |       |       |                                 |   |                   |                             |
| 2019-2020              | 52    | 49    | 1                               | 24  | 1                 | 53,06%                      |
| 2018-2019              | 50    | 48    | 1                               | 23  | 1                 | 52,08%                      |
| 2017-2018              | 53    | 50    | 2                               | 24  |                   | 52,00%                      |
| 2016-2017              | 50    | 49    | 2                               | 24  |                   | 53,06%                      |
| 2015-2016              | 52    | 50    | 2                               | 26  |                   | 56,00%                      |
| <b>7M01505 Biology</b> |       |       |                                 |   |                   |                             |
| 2019-2020              | 8     | 8     | 1                               | 7   |                   | 100,00%                     |
| 2018-2019              | 10    | 9     | 1                               | 7   | 1                 | 100,00%                     |
| 2017-2018              | 9     | 9     | 1                               | 8   |                   | 100,00%                     |
| 2016-2017              | 9     | 8     | 2                               | 6   |                   | 100,00%                     |
| 2015-2016              | 9     | 8     | 3                               | 5   |                   | 100,00%                     |
| <b>7M05101 Biology</b> |       |       |                                 |   |                   |                             |
| 2019-2020              | 11    | 11    |                                 | 10  | 1                 | 100,00%                     |
| 2018-2019              | 11    | 11    |                                 | 10  | 1                 | 100,00%                     |

|           |    |    |  |    |   |         |
|-----------|----|----|--|----|---|---------|
| 2017-2018 | 11 | 11 |  | 10 | 1 | 100,00% |
| 2016-2017 | 11 | 11 |  | 10 | 1 | 100,00% |
| 2015-2016 | 11 | 11 |  | 10 | 1 | 100,00% |

The management of the EP demonstrates awareness of responsibility for its employees and providing them with favorable working conditions and changing the role of the teacher in connection with the transition to student-centered learning. Favorable working conditions for the University as a whole and taking into account the specifics of the EP include: maintaining sanitary and hygienic conditions, uninterrupted supply of electricity, heat, cold water, uninterrupted communication. At the Department, each teacher has their own workplace, has access to a computer and the Internet.

For all disciplines developed syllabuses of disciplines, including course description, prerequisites, postrequisites, calendar thematic plan, summary of lectures, the contents of practical (seminar) classes, the content of laboratory classes, assignments and **IWS IWST**, policy evaluation, exam questions, bibliography. Syllabuses are developed in accordance with the regulations on the educational and methodological complex for the discipline, approved by the rector on 28.01.2020. During the interviews with heads of departments and faculty demonstrated facts that the University defined contribution Faculty EP to the implementation of the development strategy of the University through evaluation of key performance indicators of PPP. Respondents noted the high efficiency of this approach. The management of the EP demonstrated support for the research activities of the teaching staff in the form of bonuses based on the results of publications in rating journals. The latter is regulated by the "Regulations on incentives for teaching staff and employees based on the results of publications in international scientific journals", approved by the rector on 01.03.2019.

EP teachers are involved in the implementation of funded and initiative research projects. The list of research topics is given in table 10. since 2015, the PPP of the EP has been implementing research with a total amount of funding – 153,220,000 tenge.

Table 10 - research funded by the Department of Biology

| №  | Research topic  | Financing           | Director                                   | Implementation period | Amount of financing, thousand tenge | Participation of teaching staff and students of the OP   |
|----|---|---------------------|--|-----------------------|-------------------------------------|--|
| 1. | Development of biotechnological methods for preserving endemic and medicinal plants in vitro  | State budget        | doctor of biology<br>Murzagalieva<br>A. B. | 2015-2018             | 12 000                              | Igisinova Zh. T. - Ph. D., associate Professor; Carmen B. K. - senior lecturer; Akzambek a.m. - senior lecturer; |
| 2. | Study of genetic diversity and conservation of genetic resources of endemic, rare and economically valuable plant species in the Republic of Kazakhstan | Household agreement | doctor of biology<br>Murzagalieva<br>A. B. | 2015-2018             | 12 000                              | Master's Student: O., Duysenbekova B., Orazov A. Sadykova A.,  |

|    |  |                     |   |             |        |   |
|----|--|---------------------|---|-------------|--------|---|
| 3. | Selection of adapted and highly productive potato varieties of our own selection and the CIS countries for the East Kazakhstan Region                    | State budget        | candidate of agricultural Sciences, Kuzmina G. N. | 2015 - 2017 | 12 000 | S. S.,  |
| 4. | Biotechnology of creation and cloning of promising potato varieties for replenishment and rational use of genetic resources of East Kazakhstan (stage 3) | State budget        | candidate of agricultural Sciences, Kuzmina G. N. | 2015        | 12 000 | Tukhtasinova A.   |
| 5. | Development of methods for creating hard infectious backgrounds and selection of raw material for sunflower resistant to gray and white rot (stage 3)    | State budget        | candidate of agricultural Sciences, Kuzmina G. N. | 2015        | 12 000 | Orazov A.,<br>Abdykarimova A., S.<br>S. A. Kaziahmedov  |
| 6. | Organization and Implementation of original elite and reproductive potato seed production in the East Kazakhstan region                                  | Household agreement | candidate of agricultural Sciences, Kuzmina G. N. | 2015        | 12 000 | Akymbek A. M. -<br>senior teacher.; student<br>Tulubaev S., G.<br>Dalabaeva                               |
| 7. | Development and implementation of innovative technologies of potato  | Household agreement | candidate of agricultural Sciences, Kuzmina G. N. | 2015        | 12 000 | Komkova, G. K. -<br>senior lecturer.;<br>Undergraduate:<br>Kaisenov A.,<br>Chelysheva O., A.<br>Janybaeva |



|     |  |                     |  |           |       |                                    |
|-----|--|---------------------|--|-----------|-------|------------------------------------|
|     | cultivation in the original seed production in the conditions of East Kazakhstan   |                     |  |           |       |                                    |
| 8.  | Assessment of the state of vegetation (woody plants) in residential areas of the Northern and North-Eastern industrial hubs of Ust-Kamenogorsk                     | Household agreement | candidate of biological Sciences<br>Kitapbaeva A.  | 2015      | 300   | Master's Degree:<br>Batumi M.      |
| 9.  | Innovative technology for the production of super-elite super-early and early potato varieties on the improved lands of the East Kazakhstan region»                | Household agreement | candidate of agricultural Sciences, G. N. Kuzmin   | 2018-2019 | 1 500 | Kabataeva Zh. K. - senior teacher. |
| 10. | Introduction of innovative methods of biotechnology in seed production of major agricultural crops to obtain a healthy and productive elite of agricultural crops» | Household agreement | candidate of agricultural Sciences, G. N. Kuzmin   | 2018-2019 | 1 500 |                                    |
| 11. | Improve methods of selection and reproduction of zoned bee breeds in the Eastern and southern regions of Kazakhstan, develop and                                   | PCF                 | doctor of agricultural Sciences,<br>Kalachev A. A. | 2018-2020 | 3 000 |                                    |

|     |   |                     |                    |      |        |  |
|-----|---|---------------------|--------------------|------|--------|--|
|     | implement technologies for obtaining fertile Queen bees in isolates»  |                     |                    |      |        |  |
| 12. | Assessment of expected harm (damage) to fish resources and development of compensation measures for the construction of railway bridges across the rivers of Almaty, Karaganda and Aktobe regions to the feasibility study» | Household agreement |                    | 2019 | 1 920  | Ekimova, T. G. Tulubaev., Dalabaeva G. |
| 13. | Development and implementation of innovative technology aimed at giving antiviral resistance to agricultural varieties  | State budget        | PhD Stopped M. Yu. | 2020 | 61 000 | G. Tokubaeva., Dalabaeva G.            |

Scientific results are used in the educational process and are used in various industries of industry. "The results of the educational process were introduced by Nir " Kislomolochny functional products on the basis of topinambura", " conditions and production technology of rice cultivation in Kyzylorda region", ""ways to implement the program of modernization of public consciousness in biological education "" and doctor."

On the results of the publication Scientific and research work of Faculty for 2015-2018. 11 and 12. the EEC notes that 2 textbooks - "fundamentals of genetics" (AVT. K. K. Burunbetova, 2013), "Cytology" (AVT. Myrzagalieva A. B., 2013) recommended to adopt the Rnpc "Teacher" of the Ministry of Education and science of the Republic of Kazakhstan.

Table 11-Summary of publications of research results of PPP

| Academic year | Inventions | Patents | Monographs and textbooks | Articles recommended by CCSON | Articles in foreign publications | Publications in publications with an impact factor |        |
|---------------|------------|---------|--------------------------|-------------------------------|----------------------------------|--|--------|
|               |            |         |                          |                               |                                  | Web of Science                                     | Scopus |
| 2016-2017     | -          | -       | 5                        | 1                             | 2                                | -  | -      |
| 2017-2018     | -          | 5       | 8                        | 1                             | -                                | 1  | 2      |
| 2018-2019     | -          | -       | 3                        | 4                             | 1                                | -  | 1      |
| 2019-2020     | -          | -       | 8                        | 6                             | 6                                | -  | 1      |

Table 12-List of published books, monographs, and training manuals of the EP for 2016-2020.

| №   | Subject, name  | Year | Type of publication | Authors   |
|-----|--|------|---------------------|---|
| 1.  | Some aspects of recreational opportunities of the Taiyinta reservoir                   | 2016 | Monograph           | Murzagalieva A. B., R. S. Beisembayev                   |
| 2.  | Essential oil plants of East Kazakhstan  | 2016 | Monograph           | Murzagalieva A. B., Medeubaev B. Z., Samerkhanov T. N., |
| 3.  | Fish Of East Kazakhstan  | 2016 | Monograph           | K. Prokopov.P.  |
| 4.  | Guidelines for biotechnology (Rus)   | 2016 | Textbook            | Kitapbaeva A. A., Komekova G. K.                        |
| 5.  | Methodological guide on plant biotechnology (Kaz)                                      | 2016 | Textbook            | Kitapbaeva A. A., Komekova G. K.                        |
| 6.  | Environmental impact on plants   | 2017 | Monograph           | Cherepanova S. A., Dautova Z. S.                        |
| 7.  | The biology of insects   | 2017 | Monograph           | Karmenova B. K.   |
| 8.  | Fish Of East Kazakhstan  | 2017 | Monograph           | . Prokopova. K P.,                                      |
| 9.  | Delphinium L of the Altai territory. and Aconitum L. Types                             | 2017 | Monograph           | . Tagaeva. D A.   |
| 10. | Influence of technogenic substances on the physiology of woody plants                  | 2017 | Monograph           | Igisinova J. T.   |
| 11. | Laboratory work on plant anatomy and morphology  | 2017 | Textbook            | Kitapevi A.   |
| 12. | Laboratory classes on the basics and discipline Microbiology Virology (Kaz., English.) | 2017 | Textbook            | Igisinova J. T.   |
| 13. | Workshop on plant physiology. Together with Russian scientists                         | 2017 | Textbook            | Igisinova Zh. T.,                                       |
| 14. | Delphinium L of the Altai territory. and Aconitum L. Types                             | 2018 | Monograph           | Kabatayeva Zh. K.                                       |
| 15. | Fish Of East Kazakhstan  | 2018 | Monograph           | Karmenova B. K. and                                     |

|     |  |      |           |                                  |
|-----|--|------|-----------|----------------------------------|
|     |  |      |           | Borodulina N. D.                 |
| 16. | Laboratory classes on the basics and course of Microbiology Virology | 2018 | Textbook  | Abilova M. S.                    |
| 17. | Mammals (Mammalia) East Kazakhstan (fauna, ecology, protection)      | 2019 | Monograph | Iginova Zh. T.                   |
| 18. | Physiological foundations of Physical Culture and sports             | 2019 | Textbook  | Prokopova K.P.,                  |
| 19. | Methodology of teaching biology with updated content                 | 2019 | Textbook  | Tagaeva. D A.                    |
| 20. | Methods of teaching biology.   | 2019 | Textbook  | Iginova Zh. T.                   |
| 21. | Laboratory work on the basics and discipline Microbiology Virology   | 2019 | Textbook  | Kabataeva Zh. K.                 |
| 22. | Bioindication methods in Botany                                      | 2019 | Textbook  | K. Prokopova.P.                  |
| 23. | Hydrobiology   | 2019 | Textbook  | Sadykova G. E.                   |
| 24. | Entomology   | 2019 | Textbook  | Cherepanova S. A., Dautova Z. S. |

In high school, there are significant opportunities for career growth and professional development of teaching staff of the EP, as evidenced by the presence of a doctoral dissertation on targeted grants (e.g., Sutula M. Y., defense of a PhD at ENU. L. N. Gumilev in 2017), 14 teachers were trained, including 2 abroad, 3 in universities of Kazakhstan at the expense of the University and of the program "Orleu". For example, in 2019, more than 10 EP teachers were trained in the program "Modern studies of biodiversity and ways to preserve it" in the amount of 72 hours (lecturer - Professor Piotr Szkudlarz, Adam Mickiewicz University in Poznan, Poland). Kolosov S. F. in 2017 attended a theoretical and practical course of workshop "Production of ecologically clean products of beekeeping as a basis for the development of export potential", 72 hours (organizer – Center of agrocompany of the NCE "Atameken", Ministry of agriculture). By invitation in the framework of the Erasmus+ Staff Mobility for Teaching Assignments (STA) program. Department of biology, Kitapbaeva A. A. in the period from October 4 to October 13, 2019 participated in the academic mobility program at the Adam Mickiewicz University (Poznan, Poland).

The Commission notes the active work of teaching staff to improve their skills in Kazakhstan and abroad. According to EP 6B01505/5B011300-Biology, 6B05101/5B060700-Biology, 7M01505/6M011300-Biology, 7M05101/6M060700-Biology, 14 teachers were trained, including 2 abroad, 3 in higher education institutions of the Republic of Kazakhstan at the expense of the University and the "Orleu" program. The management of the EP passed advanced training in the field of management in educational processes. So, the Dean-Madiyarov M. N. in 2019, he completed a 72-hour training program for teachers and managers of higher professional education (organized by the Association of higher education institutions of the Republic of Kazakhstan, KazNPU. Abai's). This course included the following sections: pedagogy of higher education, psychology of higher education, management of higher education, legal framework of higher education. Head of the Department of Biology-Kitapbaeva A. A. in 2019, she was trained in the program "management of educational programs" in the amount of 72 hours In the center for confirmation of qualifications of the S. Amanzholov EKSU.

The University awards, awards certificates, letters of thanks, etc. for certain achievements in educational, methodological and research activities, and provides financial assistance. Faculty of departments actively participate in the public life of the city and the Republic. Materials of University scientists are regularly published in the mass media aimed at strengthening the public



image of the University.

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

During the interview, employees and teaching staff expressed their satisfaction with the current personnel policy at the University, demonstrated awareness of the procedures of the current personnel management system, confirmed the fact of holding a competition for vacant positions, the existing system of moral incentives and material incentives. There are special cases of participation of the teaching staff of the EP in academic mobility programs, for example, Erasmus+. At the same time, the EEC notes the lack of participation of teaching staff in academic mobility programs. The Commission notes that despite the significant equipping instruments and laboratory equipment revealed a lack of publication activity EP PPP in international peer-reviewed scientific journals (Web of Science, SCOPUS). Also, the PPP of the EP shows insufficient activity in the implementation of state projects. budget financing, taking into account the existing scientific and technical potential of the University. The Commission recommended further uvelichit participation in PPP tenders for the execution of grant research projects funded by the MES, and greater involvement of students in research work and practitioners to the educational process. Given the intensity of the development of accredited EP, professorial-pedagogical potential of the Department of Biology of the EEC notes insufficient number of textbooks and manuals issued by the Faculty and EP recommended methodological bodies of the MES (Rums, Republican scientific practical center "Textbook" MES RK).

According to the results of the NAAR survey, the teaching staff expresses full satisfaction with their relations with students (95.8%) and with colleagues at the Department (100.0%). In this case, the attitude of the management is fully satisfied 75,0% PPP, the administration of the University – 83,3%, the change management activities of the University is 83.3%. Only 50.0% of teaching staff highly assess the level of stimulation of young professionals to the educational process, and only 50.0% also rate the adequacy of recognition of the potential and abilities of teachers. 58.3% are satisfied with the provision of equal opportunities to all teaching staff.

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

- The management of the EP demonstrates awareness of responsibility for its employees and ensuring favorable working conditions for them.
- The University has determined the contribution of the faculty of education to the implementation of the University's development strategy, and other strategic documents.
- The University provides opportunities for career growth and professional development of teaching staff.
- The University demonstrates the motivation of professional and personal development of teachers of the University, including the promotion of integration of scientific activities and education, as well as the use of innovative teaching methods

#### ***The recommendations of the EEC***

Increase the number of teaching staff participating in outgoing academic mobility.

Increase the number of PPP publications in international peer-reviewed scientific publications.

Increase the share of participation of Faculty in competitions for research funding.

Increase the number of published textbooks and manuals recommended for use in the educational process of the Ministry of education and science of the Republic of Kazakhstan or Rums.

***EEC conclusions on criteria for accredited EP: strong-4, satisfactory-8***

### ***5.8 Standard «Educational resources and support systems for students and undergraduates»***

#### ***Evidence part***

The University has created conditions for meeting the social, personal and everyday needs of students. This operates the infrastructure for the organisation of educational process and

extracurricular activities and includes: 8 University buildings, 4 students' hostels, 7 canteens, sports club, student fitness center. And. N. Trunova, swimming pool "Chaika", training-tactical polygon of the military Department of the name of Kabanbai Batyr, a research library, National scientific laboratory of collective use, educational and scientific center practices "Sibiny", center for field practice them. G. Vistenius-D. Pankratiev. Administrative and academic support to ensure students: admissions office, the student service Centre "Parasat", Department of organization and control of educational process, the marketing center, careers and employment Department of distance technologies, center for multilingual education, libraries. The material and technical base of the University provides all types of practical training and research work of students, provided for by the educational programs of the University and corresponding to the current sanitary and epidemiological and fire safety standards and rules.

The educational process within each EP is provided with the necessary classroom Fund, educational laboratories, and computer classes.

The Department has a sufficient number of classrooms and computer classes (24 PCs in total) equipped with modern multimedia equipment. TV and interactive equipment is also available.

A unified system of library and information services has been created. Purchase of educational and methodical literature at the request of the Department is carried out in sufficient volume. The library has an electronic catalog that allows you to search for the necessary literature and provides access to electronic versions of individual textbooks and teaching materials. The Fund of educational and methodological literature on accredited bachelor's degree programs is shown in table 13.

Таблица 13 – The Fund of educational and methodological literature on accredited bachelor's degree programs

| EP              | Educational-methodical and scientific literature | Educational literature | Educational and scientific literature on digital media (including RMEB, KazNEB, LAN databases) | Total |
|-----------------|--|------------------------|--|-------|
| 6B01505 Biology | 5760   | 10151                  | 153  | 16064 |
| 6B05101 Biology | 6380   | 7795                   | 155  | 14330 |

Departments of the University library are located in all academic buildings. The total area of the library is 2690 sq. m. the Number of seats in the reading rooms is 480. The library's readers are served in 14 service points, including 4 subscriptions, 4 reading rooms, and 6 specialized branches in different academic buildings.

All students have access to the library's book collection, which includes educational, methodological and scientific literature in Kazakh, Russian and English, as well as foreign and domestic periodicals. The electronic catalog of the library includes databases "Books", "Works of scientists of EKSU", "Articles", "Rare Fund", "Library of electronic full-text documents - "Rukhaniyat", etc. The catalog is available in The University's corporate network and on the Internet at the library's website <http://library.vkgu.kz>.

The information capabilities of the library are extended through access to international and national resources available on the Internet: Republican interuniversity electronic library (REIL); the project of the Kazakhstan national electronic library (EGBF-KazNEB), initiated by the national academic library; a project of the National subscription for the use of the resources of the international databases Scopus and Web of Science; EB "Epigraph", AB "DOE", AB "Caspar", AB "Our Abay", a Regional project of the library of Ust-Kamenogorsk on the corporate bibliographic processing of periodicals in Kazakhstan. During the meeting with the heads of structural divisions of the University and students, the mechanisms of examination of

research results, graduation papers and dissertations for plagiarism were demonstrated. The structural division that provides plagiarism verification procedures is the scientific library.

Wi-Fi is available in academic buildings and students' homes. During the conversation with students, positive feedback was received about providing a wireless Internet connection on the territory of the University.

Inspection of the material and technical base of the University showed that the premises where the EP is implemented meet the current sanitary standards and fire safety requirements. In order to ensure the safety of students and employees, all academic buildings of the University are equipped with fire alarm systems and fire extinguishing equipment.

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

As a result of visual inspection of the objects of the material base by the EEC members, it is noted that the University has all the necessary educational and material assets to ensure the educational process of accredited educational programs. The University building meets the current sanitary standards and fire safety requirements. Classroom and laboratory facilities, classrooms and other facilities, sports facilities comply with the established rules and regulations.

At the same time, the EEC notes the need to take more careful account of the needs of different groups of students. For example, there is no guide for students in Kazakh on the University's website. During the inspection of the material base, a lack of information in English (instructions, signs, stands, etc.) was revealed, which can negatively affect the image of the University in the eyes of students arriving on academic mobility from abroad. It is necessary to develop infrastructure that is favorable for people with disabilities. The lack of ramps at the entrances to most buildings reduces the possibility of movement between buildings for students with disabilities.

According to the results of the survey, students are fully satisfied with the existing educational resources of the University – 76.2%; classrooms, classrooms for large groups – 69.8%; Availability of computer classes and Internet resources partially or completely satisfied – 95.2%; provision of students with dormitories – 88.8%.

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

- The EP management demonstrates the adequacy of material and technical resources and infrastructure.

- The management of the EP demonstrates compliance of information resources with the specifics of the EP, including compliance with: library resources, including the Fund of educational, methodological and scientific literature on General education, basic and profile disciplines on paper and electronic media, periodicals, access to scientific databases; access to educational Internet resources; examination of research results, graduation papers, dissertations for plagiarism.

- The University ensures compliance with safety requirements in the learning process

#### ***The recommendations of the EEC***

To publish a Guide for students in the Kazakh language on the website of the University.

Provide foreign students arriving on academic mobility with complete and necessary information for training, accommodation and leisure activities, including in English.

Create the necessary conditions for students with disabilities (ramps at the entrance and staircases in all academic buildings and dormitories, markings for the visually impaired, equipped toilet cabins for wheelchair users).

***EEC conclusions on criteria for accredited EP: strong-5, satisfactory-4, suggest improvements-1***

#### ***5.9. Standard «Public Information»***

##### ***Evidence part***

Following the principles of openness and accessibility to the public, the University openly

publishes complete and reliable information about its activities, admission rules for applicants, educational programs, terms and form of study, information about employment opportunities for graduates, contact information and other useful information for applicants and students on various information carriers. The main tool for Public Information is the official website of the University (<https://www.vkgu.kz/ru>). So, the site published passports of programs implemented, including accredited ones, indicating the expected results of training, information about the possibility of awarding qualifications at the end of the EP (<https://www.vkgu.kz/ru/page/bakalavriat.html>); academic policy of the University, including information about teaching, training, evaluation procedures, information about passing scores and educational opportunities provided to students, information about employment opportunities for graduates, etc. In addition, all the necessary information for the start of educational activities in the educational program addressed to the first-year student is clearly presented in the " first-year student's Guide»

The variety of ways in which information can be disseminated to inform the General public and stakeholders is shown in table 14.

Table 14-Main communication channels and methods of information transmission

| The Internet  | MEDIA   | Information boards and leaflets  |
|---|---|--|
| Official website of the University - <a href="https://www.vkgu.kz/ru">https://www.vkgu.kz/ru</a><br>Facebook - <a href="https://www.facebook.com/%D0%92%D0%9A%D0%93%D0%A3-%D0%B8%D0%BC-%D0%A1-%D0%90%D0%BC%D0%B0%D0%BD%D0%B6%D0%BE%D0%BB%D0%BE%D0%B2%D0%B0-687004481431232/?ref=bookmarks">https://www.facebook.com/%D0%92%D0%9A%D0%93%D0%A3-%D0%B8%D0%BC-%D0%A1-%D0%90%D0%BC%D0%B0%D0%BD%D0%B6%D0%BE%D0%BB%D0%BE%D0%B2%D0%B0-687004481431232/?ref=bookmarks</a><br>Instagram - <a href="https://www.instagram.com/vkgu_vko/">https://www.instagram.com/vkgu_vko/</a><br>Twitter - <a href="https://twitter.com/_3744022489972">https://twitter.com/_3744022489972</a><br>YouTube - <a href="https://www.youtube.com/channel/UCo6yF4QIDvusrEH9f_8_nYw">https://www.youtube.com/channel/UCo6yF4QIDvusrEH9f_8_nYw</a><br>SMS, whatsapp, email - mailing lists | Publications in Newspapers «ИМИДЖ ВКГУ»<br><br>TV and radio studios «Altai jastary» | booklets of S. Amanzholov EKSU, booklets of the faculty of natural Sciences, booklets of the Department of Biology, stands of the academic building:№4 |

Provisions and implementation of national programs for the development of the country and the system of higher and postgraduate education " Ruhani Zhangyru. Modernization 3.0 " is covered on the University's website (<https://www.vkgu.kz/ru/page/modernizaciya-30.html>) and are aimed at Public Information about the University's participation in the implementation of these programs.

On the University's website, there is information about the teaching staff of the EP in the context of personalities with contact phone numbers, e-mail, and a portfolio (<https://fenit.vkgu.kz/ru/page/sostav-kafedry-b.html>).

The University's website provides information about passing the external assessment procedures accredited by the EP: 6B05101 Biology, 6B01505 Biology, 7M01505 Biology, 7M05101 Biology-ASIIN accreditation (2015-2020) (<https://www.vkgu.kz/ru/page/bakalavriat.html>, <https://www.vkgu.kz/ru/page/magistratura.html>). In addition, EP regularly participate in ratings of various levels (international, national), in particular the 3rd place in the Atameken rating in 2019. In particular, the University occupies the following positions in the key Webometrics rankings - 11287 position (among 121 universities in Kazakhstan, it occupies 29th place); European ARES rating-category "A+" (6th place among 95



universities of the Republic of Kazakhstan); according to 4 International Colleges & Universities-5898 position among 13,600 universities in the world (among 108 universities of Kazakhstan takes the 16th place); Independent accreditation and rating Agency (NAAR) - 7th place, 31 bachelor's and master's degree programs are among the top three; Independent Agency for quality assurance in education (NAOKO) - 6th place; Republican Rating Agency (RRA) - 6th place out of 15.

### ***Analytical part***

Analysis of the information provided on the University's website showed that the results of the University's activities are reflected on the University's website. At the same time, the Commission notes that it is necessary to unify the content of the site in Kazakh, Russian and English. It was revealed that the site version for visually impaired users does not function, although it has sufficient significance in terms of support for all groups of students. EEC notes that the University does not publish audited financial statements on its own web resource.

At the same time, a survey of students conducted during the visit to the University of NAAR showed that 76.2% of respondents were completely satisfied with the usefulness of the website of the educational organization in General and the faculty in particular.

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

- Published by the University in the EP is accurate, objective, relevant and include: programmes, specifying expected learning outcomes; information on the possibility of qualification by the end of the EP; information about teaching, learning, assessment procedures; information on employment opportunities for graduates.

- The OP management uses a variety of ways to disseminate information (including mass media, web resources, information networks, etc.) to inform the General public and interested persons.

- Public awareness provides support and explanation of the national development programs of the country and the system of higher and postgraduate education.

- The University demonstrates the reflection on the web resource of information that characterizes the University as a whole and in the context of EP.

- The website of the University has published adequate and objective information about the teaching staff of the EP, in the context of personalities.

- The University and implemented EP participate in a variety of external assessment procedures.

### ***The recommendations of the EEC***

Ensure the equivalent functioning of the University's website in three languages.

Complete the development of the site version for the visually impaired.

Ensure publication of the audited financial statements on the University's website EEC conclusions on criteria for accredited EP: strong-10, satisfactory-3

## ***5.10 Standard « Standards in the context of individual specialties»***

### ***Education***

#### ***Evidence part***

The development of educational programs 5B011300/6B01505 - "Biology", 5B060700/6B05101 - "Biology" is aimed at obtaining the necessary theoretical and practical training for graduates, and at master's programs 6M011300/7M01505 - "Biology", 6M060700/7M05101 - "Biology" - research and pedagogical skills.

The modern condition of preparation under EP supported teaching materials, the annual update of the theme master's works, as well as the introduction of new elective courses with the advice of employers.

The EP analysis demonstrated the availability of disciplines and competencies aimed at developing graduates' knowledge in the field of psychology and skills in communication, personality and behavior analysis, methods of conflict prevention and resolution: "Psychology",

"Special psychology and pedagogy", "Inclusive education".

The EP analysis showed that the program includes disciplines that teach innovative teaching methods and training planning, including interactive teaching methods: "Methods for organizing project activities of students in the field of biology and natural science", "system of criteria-based assessment in the school biology course", "Innovative approaches in teaching", "New approaches to teaching and evaluation in school", "Modern educational technologies in teaching biology", "media Pedagogy", etc.

In order to familiarize students with the professional environment and current issues in the field of specialization, as well as to acquire practical skills based on theoretical training, the education program provides various types of practices: educational pedagogical practice, psychological and pedagogical practice, industrial pedagogical practice, pre-graduate practice. For undergraduates, there are also types of practices: research, academic writing practice, and research methodology. All types of practices are conducted in accordance with the individual curriculum, working curriculum, and academic calendar. Departments have signed contracts for professional practice, which define the responsibilities of departments, the base company and students. The University has close ties with employers and enterprises – bases of practices. Practical teachers take part in the educational process, for example, B. S. Aubakirov, head of the Altai branch of "scientific and production center of fisheries" LLP (Moscow). Ust-Kamenogorsk), is a member of the Commission for the protection of reports on practice for 2019-2020 academic year (order No. 1348-St of 26.12.2019), and also participates in the implementation of dual training for 2019-2020 academic year on the basis of the Altai branch of "NPCRH" LLP in the specialty 5B060700 – Biology (contract for paid services No. 16 of 23.09.19). Students practice in accordance with the order of the rector, which specifies the base of practice, the terms of its passage and the heads of practice from the educational institution. At the end of the internship, students submit reports on the approved form. The list of databases of practices accredited by the EP is presented in the table (see the standard Students).

Students are provided with knowledge and skills of modern methods of pedagogy, as well as knowledge in the field of management in education through scientific and methodological seminars, through the organization of master classes, trainings. To improve the quality of the educational process for students, guest lectures are periodically organized by teachers of other universities, in particular foreign ones. For example, in 2016-2017 academic year, doctor of biology Jiri Hlahula of the University (Czech Republic) gave a course of lectures to undergraduates, doctor of biology, Professor of the Al-Farabi Kazakh national University N. M. Mukhitdinov conducted a course of lectures on "Organization and planning of biological research" (April 2017), in 2017-2018 academic year, professors from Adam Mickiewicz University in Poznan (Poland) Piotr Szkudlarz and Zbigniew Celka conducted a course of lectures for undergraduates and students.

#### *Analytical part*

Analysis of feedback from employers and managers of educational and industrial practices on accredited educational programs indicates that there is close interaction with the practice bases, dual training is implemented. At the same time, the Commission of the higher school of Economics, during interviews with students, as well as when studying the submitted documents, expresses the need for wider involvement of practitioners in the educational process. In addition, the Commission was not provided with specialized software used in the educational process within the framework of accredited educational institutions.

#### *Strengths/best practices*

- The EP focuses on various types of practices: attending lectures and classes conducted by teachers; conducting special seminars and discussions on the latest teaching methodologies and technologies; students have the opportunity to listen to disciplines in their field of specialization taught by a practicing specialist.

- Within the framework of the EP, students are provided with knowledge and skills of systems and methods of pedagogy in the world, as well as knowledge in the field of education

management.

***The recommendations of the EEC***

Increase the share of using applied and didactic software in the educational process.

Increase the number of practitioners involved in the implementation of the EP.

***Conclusions of the EEC on criteria for accredited EP: strong-2, satisfactory-4.***

*Natural Sciences, agricultural Sciences, technical Sciences, and technologies*

***Evidence part***

In order to involve students in professional activities, acquire practical skills, and deepen theoretical material, students of the EP are actively involved in activities aimed at obtaining practical experience and skills in the specialty. During interviews with employers, their high interest in cooperation with the University in training personnel was revealed. Therefore, the University regularly conducts practice-oriented meetings, excursions to enterprises in the field of specialization. So, November 09, 2018 a scientific and practical seminar was held with the invitation of researchers and employers on the topic "Creation of new potato varieties and selection of adapted ones from the gene pool of the CIS countries and foreign selection for original and elite seed production in the East Kazakhstan region"; November 23, 2018-a scientific and practical seminar on: "Introduction of innovative methods of biotechnology in seed production of major agricultural crops to obtain a healthy and productive elite", etc.. In addition, in the 2019-2020 academic year, students of EP "6B05101/5B060700-Biology "study such disciplines as" Water biodiversity and aquaculture", " Decorative fish farming "on the basis of" Scientific and production center of fisheries " LLP in the dual education system.

In addition, the scientific and educational complex "Pearls of East Kazakhstan", which includes: the Bazhanov Museum of nature, the study-Museum of Geology, herbarium, is functioning to strengthen practical training in the field of specialization of the EP.

The teaching staff of the EP includes full-time teachers with significant experience in the field of biology at the enterprise. So, the head of the Department of Biology – Kitapbaeva Almash Anashbaevna from 2005 to 2011 worked as a Deputy Director in the RSE "Altai Botanical garden" (Ridder).

***Analytical part***

In the course of conversations with students, graduates, and employers, EEC notes a significant practical orientation in the implementation of the EP. A positive aspect is the high interest of production representatives in cooperation with the University in the field of training highly qualified specialists in demand in the professional market. At the same time, the University has a significant laboratory base, has the resources of the national laboratory for collective use, which allows you to conduct research in the field of related disciplines – biology, chemistry, physics. This potential is recommended to be used to expand the field of research of students, taking into account an interdisciplinary approach.

***Strengths/best practices***

- The EP includes disciplines and activities aimed at gaining practical experience and skills in the specialty in General and in profile disciplines in particular. Recommendation of the EEC

Apply an interdisciplinary approach in determining the directions and topics of research work of students.

***EEC conclusions on criteria for accredited EP: strong-1, satisfactory-4***



## (VI) REVIEW OF STRENGTHS / BEST PRACTICES FOR EACH STANDARD

### *Standard «Management of the educational programme»*

- The University has a published quality assurance policy;

- The quality assurance policy reflects the relationship between research, teaching and learning;

The EP guide shows the facts, ensure the transparency of the development plan of EP based on the analysis of its functioning, the actual positioning of the University and focus its activities to meet the needs of the state, employers, stakeholders and learners;

- The management of the EP involves representatives of groups of interested persons, in particular employers, students and teaching staff in the formation of a development plan for the EP;

- The EP management demonstrates the individuality and uniqueness of the EP development plan, its consistency with national development priorities and the development strategy of the educational organization;

- The EP management provided evidence of transparency of the Management of the educational program system;

- The management of the EP ensures the participation of representatives of interested persons (employers, teaching staff, students) in the collegial management bodies of the educational program, and confirms their representativeness in making decisions on the management of the educational program;

- The University demonstrates innovation management within the framework of the EP, including the analysis and implementation of innovative proposals;

- The EP management demonstrates evidence of openness and accessibility for students, teaching staff, employers, and other stakeholders.

### *Standard «Information Management and Reporting»*

- The University provides a system for collecting, analyzing and managing information based on the use of modern information and communication technologies and software.

- There is a system of regular reporting within the EP that reflects all levels of the structure, including an assessment of the effectiveness and efficiency of departments and research.

- The University has established the frequency, forms and methods of evaluating the management of the EP, the activities of collegial bodies and structural divisions, senior management, and the implementation of scientific projects.

- The EP management demonstrates that there is a mechanism for communication with students, employees, and other stakeholders, including mechanisms for conflict resolution.

- The University evaluates the effectiveness and efficiency of its activities, including in the context of EP.

- The information collected and analyzed by the University takes into account: key performance indicators; the dynamics of the student population in terms of forms and types; the level of academic performance, achievements of students and deductions.

### *Standard «Development and approval of the educational programme»*

- The EP management ensures that the developed OP meets the set goals, including the expected learning outcomes.

- The EP management ensures that the developed models of the EP graduate describe the learning outcomes and personal qualities.

- The management of the EP demonstrates the conduct of external examinations of the EP.

- The qualifications obtained at the end of the EP are clearly defined, explained and correspond to a certain level of the NSC.

- The EP management determines the influence of disciplines and professional practices on the formation of learning outcomes.

- The management of the EP presented evidence of participation of students, teaching staff and other stakeholders in the development of the OP, ensuring their quality.

### *Standard "On-Going monitoring and periodic review of educational programmes»*



- The University monitors and periodically evaluates the EP in order to ensure that the goal is achieved and meet the needs of students and society. The results of these processes are aimed at continuous improvement of the EP

- Monitoring and periodic evaluation of the EP considers in particular: the educational environment and support services and their compliance with the goals of the EP.

- The University and the management of the EP provided evidence of participation of students, employers and other stakeholders in the revision of the EP.

- The management of the EP provides a review of the content and structure of the EP, taking into account changes in the labor market, the requirements of employers and the social request of society.

*Standard «Student-centered learning, teaching, and performance assessment»*

- The University ensures consistency, transparency and objectivity of the mechanism for evaluating learning outcomes for each EP, including appeal.

- The University ensures that the procedures for evaluating the learning outcomes of EP students correspond to the planned learning outcomes and program goals. Evaluation criteria and methods in the framework of the EP are published

*Standard " Students»*

- The University demonstrates the policy of forming a 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) are defined, approved, and published.

- The University provides graduates with documents confirming their qualifications, including the achieved learning outcomes, as well as the context, content, and status of their education and certificates of completion.

- The EP management actively encourages students to self-education and development outside the main program (extracurricular activities).

- The University demonstrates the existence of a mechanism for supporting gifted students.

*Standard «Teaching staff»*

- The management of the OP demonstrates an awareness of responsibility for its employees and ensuring favorable working conditions for them.

- The University has determined the contribution of the faculty of education to the implementation of the University's development strategy, and other strategic documents.

- The University provides opportunities for career growth and professional development of teaching staff.

- The University demonstrates the motivation of professional and personal development of teachers of the University, including the promotion of integration of scientific activities and education, as well as the use of innovative teaching methods.

*Standard «Educational resources and support systems for students and undergraduates»*

- The EP management demonstrates the adequacy of material and technical resources and infrastructure.

- The management of the EP demonstrates compliance of information resources with the specifics of the EP, including compliance with: library resources, including the Fund of educational, methodological and scientific literature on General education, basic and profile disciplines on paper and electronic media, periodicals, access to scientific databases; access to educational Internet resources; examination of research results, graduation papers, dissertations for plagiarism.

- The University ensures compliance with safety requirements in the learning process.

*Standard «Public Information»*

- Published by the University in the EP is accurate, objective, relevant and include: programmes, specifying expected learning outcomes; information on the possibility of qualification by the end of the EP; information about teaching, learning, assessment procedures; information on employment opportunities for graduates.

- The EP management uses a variety of ways to disseminate information (including mass media, web resources, information networks, etc.) to inform the General public and interested persons.

- Public awareness provides support and explanation of the national development programs of the country and the system of higher and postgraduate education.

- The University demonstrates the reflection on the web resource of information that characterizes the University as a whole and in the context of EP.

- The website of the University has published adequate and objective information about the teaching staff of the OP, in the context of personalities.

- The University and implemented EP participate in a variety of external assessment procedures

*Standard «Standards in the context of individual specialties»*

*Education*

- The EP focuses on various types of practices: attending lectures and classes conducted by teachers; conducting special seminars and discussions on the latest teaching methodologies and technologies; students have the opportunity to listen to disciplines in their field of specialization taught by a practicing specialist.

- Within the framework of the EP, students are provided with knowledge and skills of systems and methods of pedagogy in the world, as well as knowledge in the field of education management. Natural Sciences, agricultural Sciences, technical Sciences, and technologies

- The EP includes disciplines and activities aimed at gaining practical experience and skills in the specialty in General and in profile disciplines in particular.

## **(VII) REVIEW RECOMMENDATIONS FOR QUALITY IMPROVEMENT**

*Standard «Management of the educational programme»*

Consider the possibility of introducing related disciplines and implementing interdisciplinary research, taking into account the existing scientific and innovative potential of the University.

*Standard «Information Management and Reporting»*

Provide documentary evidence of the personal consent of students, employees and teaching staff to the processing of personal data.

*Standard «development and approval of an educational programme»*

To consider the preparation of students for professional certification.

Strengthen international relations in the direction of developing joint educational programs with foreign educational organizations.

*Standard "On-Going monitoring and periodic review of educational programmes»*

Ensure that the EP's assessment is clearly reasoned and complete in the external reviews and reviews provided.

Publish the changes made to the EP on the University's website, in order to inform all interested parties in a timely manner.

*Standard «Student-centered learning, teaching, and performance assessment»*

Provide wide access, including through the University's website, to auxiliary materials (guide, etc.) for students of all levels of education in Kazakh, Russian and English.

Conduct their own research in the field of teaching methods of educational disciplines of the EP.

Consider providing students with a choice of the foreign language they are studying.

*Standard «Students»*

Ensure that a trilingual version of information for foreign students is published on the University's website.

Post information about subjects taught in English on the University's website.

Pay attention to informing students about the current rules of procedures for academic mobility, including the mechanism for recognizing the results of academic mobility of students.

Increase the number of students involved in external and internal academic mobility in the context of accredited programs.

*Standard "Teaching staff»*

Increase the number of teaching staff participating in outgoing academic mobility.

Increase the number of TS publications in international peer-reviewed scientific publications.

Increase the share of participation of Faculty in competitions for research funding.

Increase the number of published textbooks and manuals recommended for use in the educational process of the Ministry of education and science of the Republic of Kazakhstan or Rums.

*Standard «Educational resources and support systems for students and undergraduates»*

Publish a guide For students in Kazakh on the University's website

Provide foreign students arriving on academic mobility with complete and necessary information for training, accommodation and leisure activities, including in English.

Create the necessary conditions for students with disabilities (ramps at the entrance and staircases in all academic buildings and dormitories, markings for the visually impaired, equipped toilet cabins for wheelchair users).

*Standard «Public Information»*

Ensure the equivalent functioning of the university website in three languages.

To complete the development of a version of the site for the visually impaired.

Ensure the publication of audited financial statements on the university website

*Standard «Standards in the context of individual specialties»*

Education

Increase the share of using applied and didactic software in the educational process.

Increase the number of practitioners involved in the implementation of the EP.

Natural Sciences, agricultural Sciences, technical Sciences, and technologies

Apply an interdisciplinary approach in determining the directions and topics of research work of students.

**Evaluation table "PARAMETERS OF A SPECIALISED PROFILE"**  
**Conclusion of the External Expert Commission on the results of the evaluation of**  
**educational programs 5B011300/6B01505 – «Биология», 6M011300/7M01505 –**  
**«Биология», 5B060700/6B05101 – «Биология», 6M060700/7M05101 – «Биология»**

| №   | №  | Criteria for evaluation   | Position of the educational organization |              |                      |                |
|---|----|---|--|--------------|----------------------|----------------|
|   |    |   | strong                                   | satisfactory | Assumes improvements | unsatisfactory |
| <b>Standard "Management of the educational program"</b> |    |   |  |              |                      |                |
| 1   | 1. | The university must have a published quality assurance policy.  | +  |              |                      |                |
| 2   | 2. | A quality assurance 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 EP   |  | +            |                      |                |
| 4   | 4. | A commitment to quality assurance should apply to any activity carried out by contractors and partners (outsourcing), including in the implementation of joint double-degree education and academic mobility  |  | +            |                      |                |
| 5   | 5. | The EP management ensures transparency in the development of the EP development plan based on an analysis of its functioning, the actual positioning of the university and its focus on meeting the needs of the state, employers, interested individuals and students.   | +  |              |                      |                |
| 6   | 6. | EP management demonstrates the functioning of the mechanisms for forming and regularly reviewing the EP development plan and monitoring its implementation, assessing the achievement of learning goals, meeting the needs of students, employers and society, making decisions aimed at continually improving EP |  | +            |                      |                |
| 7   | 7. | EP management should involve representatives of stakeholder groups, including employers, students and faculty members, in the formation of the EP development plan.   | +  |              |                      |                |
| 8   | 8. | EP management must demonstrate the individuality and uniqueness of the EP development plan, its consistency with national development priorities and the development strategy of the educational organization   | +  |              |                      |                |
| 9   | 9. | The university must demonstrate a clear definition of those responsible for business processes, within the framework of the EP, the unambiguous distribution of the duties of the staff, and the delineation of the functions of  |  | +            |                      |                |



|  |     |   |          |          |          |          |
|--|-----|---|----------|----------|----------|----------|
|  |     | collegial bodies.   |          |          |          |          |
| 10   | 10. | EP management must provide evidence of the transparency of the educational program management system.   | +        |          |          |          |
| 11   | 11. | EP management must demonstrate the successful functioning of the internal quality assurance system of the EP, including its design, management and monitoring, their improvement, and decision-making based on facts.   |          | +        |          |          |
| 12   | 12. | EP management must manage risk  |          | +        |          |          |
| 13   | 13. | EP management should ensure the participation of representatives of interested parties (employers, teaching staff, students) in the collegial bodies of the educational program management, as well as their representativeness in making decisions on educational program management | +        |          |          |          |
| 14   | 14. | The university should demonstrate innovation management in the framework of the EP, including the analysis and implementation of innovative proposals.  | +        |          |          |          |
| 15   | 15. | EP management should demonstrate evidence of openness and accessibility for students, faculty, employers and other interested parties.  | +        |          |          |          |
| 16   | 16. | EP management must be trained in education management programs  |          | +        |          |          |
| 17   | 17. | EP management should strive to ensure that the progress made since the last external quality assurance procedure was taken into account in preparation for the next procedure.  |          | +        |          |          |
| <b>Total standard</b>                                  |     |   | <b>9</b> | <b>8</b> | <b>0</b> | <b>0</b> |
| <b>Standard «Information Management and Reporting»</b> |     |   |          |          |          |          |
| 18   | 1.  | The university should ensure the functioning of a system for collecting, analyzing and managing information based on the use of modern information and communication technologies and software.   | +        |          |          |          |
| 19   | 2.  | EP management must demonstrate the systematic use 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 regular reporting, reflecting all levels of the structure, including an assessment of the effectiveness and efficiency of the departments and departments, scientific research.   | +        |          |          |          |
| 21   | 4.  | The university should establish the frequency, forms and methods of evaluating the management of EP, the activities of collegial bodies and structural divisions, senior management, and the implementation of scientific projects.   | +        |          |          |          |
| 22   | 5.  | The university must demonstrate the determination of the order and ensuring the protection of information, including the definition of responsible persons for the accuracy and timeliness of the analysis of information and presentation of data.                                   |          | +        |          |          |

|  |     |  |          |          |          |          |
|--|-----|--|----------|----------|----------|----------|
| 23   | 6.  | An important factor is the involvement of students, employees and teaching staff in the processes of collecting and analyzing information, as well as making decisions based on them                             |          | +        |          |          |
| 24   | 7.  | EP management should demonstrate the existence of a communication mechanism with students, employees and other interested parties, including the existence of conflict resolution mechanisms.                    | +        |          |          |          |
| 25   | 8.  | The university should provide a measure of the degree of satisfaction of the needs of faculty, staff and students in the framework of the EP and demonstrate evidence of elimination of discovered shortcomings. |          | +        |          |          |
| 26   | 9.  | The university should evaluate the effectiveness and efficiency of activities, including in the context of EP  | +        |          |          |          |
|  |     | Information collected and analyzed by the university in the framework of the EP should take into account:  |          |          |          |          |
| 27   | 10. | key performance indicators;  | +        |          |          |          |
| 28   | 11. | academic performance, student achievement, and expulsion;  | +        |          |          |          |
| 29   | 12. | students' satisfaction with the implementation of the academic program and the quality of education at the university;   | +        |          |          |          |
| 30   | 13. | availability of educational resources and support systems for students   |          | +        |          |          |
| 31   | 14. | employment and career growth of graduates  |          | +        |          |          |
| 32   | 15. | Students, employees and faculty must document their consent to the processing of personal data   |          | +        |          |          |
| 33   | 16. | EP management should facilitate the provision of all necessary information in relevant fields of science.  |          | +        |          |          |
| 34   | 17. | The university should ensure the functioning of a system for collecting, analyzing and managing information based on the use of modern information and communication technologies and software.                  |          | +        |          |          |
| <b>Total standard</b>  |     |  | <b>8</b> | <b>9</b> | <b>0</b> | <b>0</b> |
| <b>Standard «Development and approval of educational programs»</b> |     |  |          |          |          |          |
| 35   | 1.  | The university should determine and document the procedures for the development of EP and their approval at the institutional level.   |          | +        |          |          |
| 36   | 2.  | EP management should ensure that developed EPs are consistent with established goals, including intended learning outcomes   | +        |          |          |          |
| 37   | 3.  | EP management should ensure the availability of developed models of the graduate of the EP that describe the learning outcomes and personal qualities  | +        |          |          |          |
| 38   | 4.  | EP management should demonstrate conducting external expert reviews  | +        |          |          |          |

|   |     |   |          |          |          |          |
|---|-----|---|----------|----------|----------|----------|
| 39  | 5.  | The qualifications obtained upon completion of the EP must be clearly defined, clarified and consistent with a certain level of NSC.  | +        |          |          |          |
| 40  | 6.  | EP management 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.  | EP management must provide evidence of the participation of students, faculty and other stakeholders in the development of EP, ensuring their quality.  | +        |          |          |          |
| 43  | 9.  | The complexity of the EP should be clearly defined in Kazakhstan laws and ECTS  |          | +        |          |          |
| 44  | 10. | EP management must ensure the content of academic disciplines and learning outcomes of the level of education (bachelor's, master's, doctoral).   |          | +        |          |          |
| 45  | 11. | The structure of the EP should provide for various types of activities corresponding to the learning outcomes.  |          | +        |          |          |
| <b>Total standard</b>   |     |   | <b>6</b> | <b>5</b> | <b>0</b> | <b>0</b> |
| <b>Standard «Continuous monitoring and periodic evaluation of educational programs»</b> |     |   |          |          |          |          |
| 46  | 1.  | The university should conduct monitoring and periodic assessment of the EP in order to ensure the achievement of the goal and meet the needs of students and society. The results of these processes are aimed at continuous improvement of the OP. | +        |          |          |          |
|   |     | Monitoring and periodic evaluation of the EP should consider:<br>The content of programs in the light of the latest scientific achievements in a particular discipline to ensure the relevance of the taught discipline;                            |          |          |          |          |
| 47  | 2.  | Changes in the needs of society and the professional environment;   |          | +        |          |          |
| 48  | 3.  | The load, performance and graduation of students;   |          | +        |          |          |
| 49  | 4.  | The effectiveness of student assessment procedures:   |          | +        |          |          |
| 50  | 5.  | Expectations, needs and satisfaction of students with training in EP;   |          | +        |          |          |
| 51  | 6.  | Educational environment and support services and their relevance to the goals of the EP;  |          | +        |          |          |
| 52  | 7.  | The university and the EP management must provide evidence of the participation of students, employers and other stakeholders in the revision of the EP.  | +        |          |          |          |
| 53  | 8.  | All interested parties should be informed of any planned or taken actions in relation to the EP. All changes made to the EP should be published.  | +        |          |          |          |
| 54  | 9.  | EP management should ensure that the content and structure of the EP are reviewed taking into account changes in the labor market and the requirements of employers in the social request of the company.   |          | +        |          |          |

|   |     |   |          |          |          |          |
|---|-----|---|----------|----------|----------|----------|
| 55  | 10. | The university should conduct monitoring and periodic assessment of the EP in order to ensure the achievement of the goal and meet the needs of students and society. The results of these processes are aimed at continuous improvement of the EP.   | +        |          |          |          |
| <b>Total standard</b>   |     |   | <b>4</b> | <b>6</b> | <b>0</b> | <b>0</b> |
| <b>Standard "Student-centered learning, teaching, and performance assessment"</b> |     |   |          |          |          |          |
| 56  | 1.  | EP management should ensure respect and attention to various groups of students and their needs, providing them with flexible learning paths.   |          |          | +        |          |
| 57  | 2.  | EP management should ensure the use of various forms and methods of teaching instruction.   |          | +        |          |          |
| 58  | 3.  | An important factor is the availability of our own research in the field of teaching methods of educational disciplines of EP.  |          | +        |          |          |
| 59  | 4.  | EP management should demonstrate the existence of a feedback system for the use of various teaching methods and assessment of learning outcomes   |          | +        |          |          |
| 60  | 5.  | EP management should demonstrate support for students' autonomy while guiding and assisting the teacher.  |          | +        |          |          |
| 61  | 6.  | EP management must demonstrate the existence of a procedure for responding to student complaints.   |          | +        |          |          |
| 62  | 7.  | The university should ensure the consistency, transparency and objectivity of the mechanism for assessing learning outcomes for each academic degree, including an appeal.  | +        |          |          |          |
| 63  | 8.  | The university must ensure that the procedures for evaluating the learning outcomes of students of EP study meet the planned learning outcomes and program objectives. Evaluation criteria and methods within the framework of the EP should be published in advance.   | +        |          |          |          |
| 64  | 9.  | The university should determine the mechanisms for ensuring the development of learning outcomes by each graduate of the academic program and ensure the completeness of their formation.   |          | +        |          |          |
| 65  | 10. | Evaluators must be proficient in modern methods of assessing learning outcomes and regularly improve their skills in this area.   |          | +        |          |          |
| <b>Total standard</b>   |     |   | <b>2</b> | <b>7</b> | <b>1</b> | <b>0</b> |
| <b>Standard "Students»</b>  |     |   |          |          |          |          |
| 66  | 1.  | The university should demonstrate a policy for the formation of the contingent of students in the context of EP from admission to graduation and ensure transparency of its procedures. Procedures governing the life cycle of students (from admission to completion) must be defined, approved and published. | +        |          |          |          |
| 67  | 2.  | EP management should demonstrate the implementation of special adaptation and support programs for newly arrived and foreign students   |          |          | +        |          |
| 68  | 3.  | The university must demonstrate the conformity of its   |          | +        |          |          |



|                           |     |  |          |          |          |          |
|---------------------------|-----|--|----------|----------|----------|----------|
|                           |     | actions to the Lisbon Recognition Convention.  |          |          |          |          |
| 69                        | 4.  | The university should cooperate with other educational organizations and national centers of the European Network of National Information Centers for Academic Recognition and Mobility / National Academic Recognition Information Centers ENIC / NARIC in order to ensure comparable recognition of qualifications |          | +        |          |          |
| 70                        | 5.  | EP management should demonstrate the existence and application of a mechanism for recognizing the results of academic mobility of students, as well as the results of additional, formal and non-formal learning   |          |          | +        |          |
| 71                        | 6.  | The university must provide an opportunity for external and internal mobility of studies. EP, as well as assist them in obtaining external grants for training.  |          | +        |          |          |
| 72                        | 7.  | EP management should make every effort to provide students with places of practice, facilitate the employment of graduates, and maintain contact with them.  |          | +        |          |          |
| 73                        | 8.  | The university should provide graduates of the educational program with documents confirming the qualifications obtained, including the results of training, as well as the context, content and status of the education and evidence of its completion.   | +        |          |          |          |
| 74                        | 9.  | An important factor is monitoring the employment and professional activities of graduates, EP.   |          | +        |          |          |
| 75                        | 10. | EP management should actively encourage students to self-education and development outside the main program (extracurricular activities).  | +        |          |          |          |
| 76                        | 11. | An important factor is the existence of an active association of graduate associations   |          | +        |          |          |
| 77                        | 12. | An important factor is the availability and support mechanism of gifted students.  | +        |          |          |          |
| <b>Total standard</b>     |     |  | <b>4</b> | <b>6</b> | <b>2</b> | <b>0</b> |
| <b>Standard «Faculty»</b> |     |  |          |          |          |          |
| 78                        | 1.  | The university should have an objective and transparent personnel policy, including in the context of EP, including hiring, professional growth and staff development, ensuring the professional competence of the entire staff.   |          | +        |          |          |
| 79                        | 2.  | 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 academic program.   |          | +        |          |          |
| 80                        | 3.  | EP management should demonstrate awareness of responsibility for its employees and ensure favorable working conditions for them.   | +        |          |          |          |
| 81                        | 4.  | EP management should demonstrate a change in the teacher's role in connection with the transition to student-centered learning.  |          | +        |          |          |
| 82                        | 5.  | The university should determine the contribution of faculty staff to the implementation of the development strategy of the university, and other strategic documents.  | +        |          |          |          |
| 83                        | 6.  | The university should provide opportunities for career   | +        |          |          |          |

|   |     |   |          |          |          |          |
|---|-----|---|----------|----------|----------|----------|
|   |     | growth and professional development of faculty staff.   |          |          |          |          |
| 84  | 7.  | EP management should involve practitioners in the relevant industries.  |          | +        |          |          |
| 85  | 8.  | EP management should provide targeted action to develop young teachers.   |          | +        |          |          |
| 86  | 9.  | The university should demonstrate motivation for the professional and personal development of teachers of EP, including encouraging the integration of scientific activity and education, as well as the use of innovative teaching methods   | +        |          |          |          |
| 87  | 10. | An important factor is the active use of the faculty of information and communication technologies in the educational process. (e.g. on-line training, e-portfolio, MEP, etc.)  |          | +        |          |          |
| 88  | 11. | An important factor is the development of academic mobility in the framework of EP, the involvement of the best foreign and domestic teachers.  |          | +        |          |          |
| 89  | 12. | 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.). |          | +        |          |          |
| <b>Total standard</b>   |     |   | <b>4</b> | <b>8</b> | <b>0</b> | <b>0</b> |
| <b>Standard «Educational resources and support systems for students and undergraduates»</b> |     |   |          |          |          |          |
| 90  | 1.  | EP management must demonstrate the adequacy of material and technical resources and infrastructure.   | +        |          |          |          |
| 91  | 2.  | EP management should demonstrate the existence of support procedures for various groups of students, including information and counseling.  |          | +        |          |          |
| 92  |     | EP management must demonstrate compliance of information resources with the specifics of the EP, including compliance with:   |          |          |          |          |
|   | 3.  | 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;   |          | +        |          |          |
| 93  | 4.  | examination of the results of research, final works, dissertations on plagiarism  | +        |          |          |          |
| 94  | 5.  | Access to educational Internet resources  | +        |          |          |          |
| 95  | 6.  | The functioning of WI-FI in the territory of the educational organization.  | +        |          |          |          |
| 96  | 7.  | 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.  |          | +        |          |          |
| 97  | 8.  | The university must ensure compliance with safety requirements in the learning process.   |          | +        |          |          |

|                                      |     |  |          |          |          |          |
|--------------------------------------|-----|--|----------|----------|----------|----------|
| 98                                   | 9.  | The university should strive to take into account the needs of various groups studying in the context of EP (adults, workers, foreign students, as well as students with disabilities).  | +        |          |          |          |
| 99                                   | 10. | EP management must demonstrate the adequacy of material and technical resources and infrastructure.  |          |          | +        |          |
| <b>Total standard</b>                |     |  | <b>5</b> | <b>4</b> | <b>1</b> | <b>0</b> |
| <b>Standard "Public Information"</b> |     |  |          |          |          |          |
|                                      |     | The information published by the University within the framework of the EP must be accurate, objective, and up-to-date and must include:<br>Implemented programs, indicating the expected learning outcomes;                           |          |          |          |          |
| 100                                  | 1.  | Information about the possibility of awarding a qualification at the end of the EP;  | +        |          |          |          |
| 101                                  | 2.  | Information about teaching, training, and evaluation procedures;   | +        |          |          |          |
| 102                                  | 3.  | Information about passing points and educational opportunities provided to students;   | +        |          |          |          |
| 103                                  | 4.  | Information about graduate employment opportunities.   |          | +        |          |          |
| 104                                  | 5.  | The management of the EP should use a variety of ways to disseminate information, including the media, information networks to inform the General public and interested persons  | +        |          |          |          |
| 105                                  | 6.  | public awareness should include support and explanation of the country's national development programs and the system of higher and postgraduate education.  | +        |          |          |          |
| 106                                  | 7.  | The University must publish audited financial statements on its own web resource, including in the context of EP.  | +        |          |          |          |
| 107                                  | 8.  | The University must demonstrate the reflection on the web resource of information that characterizes the University as a whole and in the context of EP.   |          | +        |          |          |
| 108                                  | 9.  | An important factor is the availability of adequate and objective information about teaching EP, in the context of personalities.  | +        |          |          |          |
| 109                                  | 10. | An important factor is to inform the public about cooperation and interaction with partners within the framework of the EP, including scientific consulting organizations, business partners, social partners and public organizations | +        |          |          |          |
| 110                                  | 11. | The University should post information and links to external resources based on the results of external evaluation procedures.   |          | +        |          |          |
| 111                                  | 12. | An important factor is the participation of the University and implemented EP in a variety of external evaluation procedures.  |          | +        |          |          |
| 112                                  | 13. | The information published by the University within the framework of the EP must be accurate, objective, and up-to-date and must include:<br>Implemented programs, indicating the expected learning outcomes;                           | +        |          |          |          |

|  |    |   | <b>Total standard</b> | <b>9</b> | <b>4</b> | <b>0</b> | <b>0</b> |
|--|----|---|-----------------------|----------|----------|----------|----------|
| <b>Standards in the context of individual specialties</b>                            |    |   |                       |          |          |          |          |
| <b>EDUCATION</b>   |    |   |                       |          |          |          |          |
|  |    | The management of the EP must demonstrate that graduates of the program have theoretical knowledge in the field of psychology and skills in communication, analysis of personality and behavior, methods for preventing and resolving conflicts, and motivation of students:  |                       |          |          |          |          |
| 113  | 1. | The management of the EP must demonstrate the literacy of graduates of the program in the field of information technology.  |                       | +        |          |          |          |
| 114  | 2. | The management of the EP must demonstrate the availability of disciplines that teach in. teaching methods and training planning, including interactive teaching methods, teaching methods with high involvement and motivation of students (games, case studies/situations, multimedia tools)   |                       | +        |          |          |          |
| 115  | 3. | The EP management must demonstrate that students have the ability to teach self-learning skills   |                       | +        |          |          |          |
| 116  | 4. | The EP should focus on different types of practices:<br>- attending lectures and classes held by teachers;<br>- conducting special seminars and discussions on the latest teaching methodologies and technologies;<br>- within the framework of the program, students must have the opportunity to attend at least one discipline in their field of specialization taught by a practitioner   |                       | +        |          |          |          |
| 117  | 5. | Within the framework of the EP, students should be provided with knowledge and skills of systems and methods of pedagogy in the world, as well as knowledge in the field of education management.   |                       | +        |          |          |          |
| 118  | 6. | The management of the EP must demonstrate that graduates of the program have theoretical knowledge in the field of psychology and skills in communication, analysis of personality and behavior, methods for preventing and resolving conflicts, and motivation of students:  |                       | +        |          |          |          |
|  |    |   | <b>Total standard</b> | <b>2</b> | <b>4</b> |          |          |
| <b>NATURAL SCIENCES, AGRICULTURAL SCIENCES, TECHNICAL SCIENCES, AND TECHNOLOGIES</b> |    |   |                       |          |          |          |          |
|  |    | Educational programs in the areas of "Natural Sciences", "Technical Sciences and technologies" , such as "Mathematics", "Physics", "Information systems", etc., must meet the following requirements:   |                       |          |          |          |          |
| 119  | 1. | In order to familiarize students with the professional environment and current issues in the field of specialization, as well as to acquire skills based on theoretical training, the educational program should include disciplines and activities aimed at obtaining practical experience and skills in the specialty in General and in the profile disciplines in particular, including:<br>- excursions to enterprises in the field of specialization |                       | +        |          |          |          |



|                       |    |  |           |           |          |          |
|-----------------------|----|--|-----------|-----------|----------|----------|
|                       |    | (factories, workshops, research institutes, laboratories, training and experimental farms, etc.),<br>- conducting individual classes or entire disciplines at the enterprise of specialization,<br>- conducting seminars to solve practical problems relevant for enterprises in the field of specialization, etc. |           |           |          |          |
| 120                   | 2. | The teaching staff involved in the education program should include full-time teachers with long-term experience as full-time employees in enterprises in the area of specialization of the education program.   |           | +         |          |          |
| 121                   | 3. | The content of all EP disciplines should be based in one way or another and include a clear relationship with the content of fundamental natural sciences, such as mathematics, chemistry, physics.  |           | +         |          |          |
| 122                   | 4. | EP management should provide measures to enhance practical training in the field of specialization.  |           | +         |          |          |
| 123                   | 5. | EP management must provide training for students in the use of modern information technologies.  |           | +         |          |          |
| <b>Total standard</b> |    |  | <b>1</b>  | <b>4</b>  | <b>0</b> | <b>0</b> |
| <b>TOTAL</b>          |    |  | <b>54</b> | <b>65</b> | <b>4</b> | <b>0</b> |