



«АККРЕДИТЕУ ЖӘНЕ РЕЙТИНГТІҢ  
ТӘУЕЛСІЗ АГЕНТТІГІ» КЕМ

НУ «НЕЗАВИСИМОЕ АГЕНТСТВО  
АККРЕДИТАЦИИ И РЕЙТИНГА»

INDEPENDENT AGENCY FOR  
ACCREDITATION AND RATING

# REPORT

On the results of the External Expert Commission's work in terms of the evaluation of the educational program “Biology-6B05103” of S. Seifullin Kazakh Agrotechnical University for compliance with the institutional accreditation standards on October 06-08, 2020.

INDEPENDENT AGENCY FOR ACCREDITATION AND RATING

*The External expert commission*

*Addressed to  
IAAR Accreditation Council*



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## (I) LIST OF DESIGNATIONS AND ABBREVIATIONS



EP	- Educational Program
GD	- General Disciplines
RO	- Registrar's Office
SC	- Standard Curriculum
SITC	- Scientific and Information Technologies Center
RW	- Research work
QMS	- Quality management system
RSE	- Republican State Enterprise
BREM	- on the basis of the right of economic management
ATS	- Academic teaching staff
EDMS	- electronic document management system
MM	- mass media
NAS RK	- National Academy of Sciences of the Republic of Kazakhstan
TSM	- tracking student movement
TMCD	- Teaching-Methodological Complex of the Discipline
SIIW	- Student Instructor-guided Independent Work
UNT	- Unified national testing
CT	- complex testing
LLP	- limited liability partnership
JSC	- joint-stock company
SUC	- state utility company
HE	- higher education
WG	- work guideline
SRW	- Student research work
SSC	- student scientific circles
SAC	- State Attestation Commission
WC	- Working Curriculum
SRL	- Scientific Research Laboratory
SRI	- Scientific Research Institute
SRC	- Scientific Research Center
ES	- emergency situation
SCB	- student construction brigade
HL	- healthy life style
EMCS	- Educational-Methodical Complex of the Specialty
EMB	- Educational and Methodological Board
SMBF	- Scientific and Methodological Bureau of Faculties
ISP	- Individual Study Plan
CED	- Catalog of Elective Disciplines
SPC	- student's personal code

## (II) INTRODUCTION

According to order No. 71-20-LA(Learning Activity) dated 07.09.2020 of the Independent Agency for Accreditation and Rating, on 6-8 October, 2020, an evaluation of S. Seifullin KATU JSC was carried out by the External Expert Commission in terms of its compliance with IAAR standards of primary specialized accreditation. (dated February 24, 2017, No. 10-17-LA, fifth edition).

The report of the External Expert Commission (EEC) contains an evaluation for compliance of the activities of S. Seifullin KATU JSC with IAAR's criteria, EEC recommendations on further improvement, and parameters for specialized profile.

EEC composition:

**Chairperson** - Andrey Alexandrovich Bratsikhin, dr.t.sc., Head of the Department "Food Technologies and Engineering" of the Living Systems Institute of the North-Caucasus Federal University;

**Foreign expert**- Sergey Konstantinovich Filipov, dr.sc.ing., professor, Abo Akademi University, Finland;

**Foreign expert**- Alena Yuryevna Levykh candidate of biological sciences, associate professor of the P. P. Yershov Ishim Pedagogical Institute (branch) of the Tyumen State University;

**National Expert**- Rustem Tukenovich Omarov, PhD, Head of the Biology and Biotechnology Department of the L. N. Gumilyov Eurasian National University;

**National Expert**- Alma Nurgazevovna Nurgazevova, c.t.sc., Associate Professor of the "Technology of Food and Processing Industries" Department of Shakarim State University of Semipalatinsk;

**National expert**- Bakhytzhansrazhatdinovich Akhmetov, dr.t.sc., professor, Abai Kazakh National Pedagogical University;

**National expert** - Saule Kairolayevna Sagnaeva, candidate of physical and mathematical sciences, professor of the Information Systems Department of the L. N. Gumilyov Eurasian National University;

**National expert**- Marat Askarovich Mustafin, dr.t.sc, Professor of Almaty University of Energy and Communications;

**National expert**- Yelibek Atrauovich Asangaliyev, candidate of agricultural sciences, associate professor of the "Earth and Environmental Sciences School" Department of the D. Serikbayev East Kazakhstan State Technical University;

**National Expert**- Madi Asetovich Gabdulov, candidate of agricultural sciences, Associate Professor of the "Crop Production and Agriculture" Department of the Zhangir Khan West Kazakhstan Agrarian and Technical University;

**Employer** - Leyla Maratovna Janspayeva, Department of Human Capital Development of the Chamber of Entrepreneurs of Akmola region;

**Employer**- Daniyar Amangeldinovich Zhantleuov, candidate of agricultural sciences, employee of the North Kazakhstan Research Institute of Animal Husbandry and Crop Production;

**Student** - Nazgul Mukash, 2nd year master's student of the specialty "MCM" of the Kazakh-British University;

**Student** - Aisulu Tolegenova, 4th year student of the specialty "Biology" of the L. N. Gumilyov Eurasian National University;

**Student**- Askar Tengebayev, 1st year student of the L. N. Gumilyov Eurasian National University;

**Agency Observer**- Gulfiya Nazyrova, c.e.sc., Project Manager of the Agency.

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

“S. Seifullin Kazakh Agro Technical University” JSC (S. Seifullin KATU ) has been functioning according to the Charter approved by decision of sole shareholder – “National Agrarian Scientific-Educational Center” nonprofit joint-stock company No.2 dated 05.02.2018, certificate of state registration of legal entity No. 27738-1901-AC 10.07.2007, state license of the Committee for Control of Education and Science, Ministry of Education and Science of the RK series No. 0062189 AB dated 02.07.2008, which permits to conduct educational activities and appendixes to carry out educational activity on educational programs (EP), directions and specialties in the field of higher professional education.

Currently, S. Seifullin KATU provides training in 133 educational programs: 47 Bachelor's EP, 53 Master's EP and 33 PhD EP. Trilingual training was introduced within the framework of 66 EP. In 2019 S. Seifullin KATU together with the leading agricultural university of Europe AgroParisTech (France) developed 5 new programs for the implementation of two-degree education.

The structure of S. Seifullin KATU includes 8 faculties: agronomy; veterinary medicine and animal husbandry technology; technical; land management, architecture and design; computer systems and professional education; energy; and economics. There are 42 departments in 8 faculties, including the military department, and 27 research institutes and centers.

The total number of students studying at S. Seifullin KATU is 13077, including 1266 undergraduates and doctoral students. 54% of students study on state educational grants.

Training in “6B05103-Biology” EP (academic degree-Bachelor's degree in Biology) is carried out by the Department of Biological Sciences. This educational program is implemented on the basis of the appendix to the license which permits to conduct educational activities dated 02.07.2008.

S. Seifullin KATU takes the 3rd place in the general rating of the IAAR (2020) top-20 universities of the Republic of Kazakhstan. According to the number of state grants S. Seifullin KATU takes the 4th place awarded among the universities of the Republic of Kazakhstan,.

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

Accreditation of this EP is carried out for the first time.

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

The work of EEC was carried out on the basis of the Program of on-line visit of the Expert Commission on primary specialized accreditation of the S. Seifullin Kazakh Agro Technical University in the period from 06 to 08 October 2020.

With the purpose of EEC work coordination, an orientation meeting was held on 05.10.2020, which distributed the powers among the commission members, clarified the schedule of the visit and brought about the agreement in the questions concerning the choice of examination methods.

In accordance with the standards, Program of the visit included the meeting with the Chairman of the Board, the Vice Chairman of the Board, heads of departments, deans, heads of departments of the University, teachers and students as well as staff from different departments, interviewing, and questionnaires for teachers and students. Totally 125 people took part in the meetings (Table 1).

**Information about employees and students who participated in meetings with the EEC of the IAAR:**

Category of participants	Number
Chairman of the Board	1
The Vice Chairman of the Board	5
Heads of structural units	15
Deans of faculties	5
Heads of departments	8
Teachers	53
Students, undergraduates, doctoral students	38
Total	125

EEC members did not attend lessons in the disciplines taught by ATS of the Biological Sciences Department for students studying in the “Biology” EP, because classes in the subjects of the graduating department will begin only in the second trimester of the 2020-2021 academic year (WC for 2020-2024 for the “Biology” modular educational program in the specialty “B050 – Biological and Related Sciences”).

During the virtual tour, EEC members got acquainted with the state of the material and technical base of the Biological Sciences Department, the “Agricultural biotechnology” research platform, the practice base-Astana botanical garden – RSE on theBREM “Institute of Botany and Phyto-Introduction of the Forestry and Wildlife Committee of the Ministry of Ecology, Geology and Natural Resources of the Republic of Kazakhstan”, equipping of the anatomical museum (<https://kazatu.kz/ru/obrazovanie/fakulteti/kafedra-biologicheskikh-nauk/muzey-anatomii/>) and the herbarium fund of the department (<https://kazatu.kz/ru/obrazovanie/fakulteti/kafedra-biologicheskikh-nauk/gerbariy/>).

Instructor and student survey was carried out in accordance with the accreditation procedure.

In order to confirm the information presented in the Report on EP, the external experts requested and analyzed the University working documentation. Apart from that, the experts examined the Internet positioning of the University using its official site <https://kazatu.kz/ru/>.

All conditions were created for the work of the EEC, and access to all necessary information resources was organized. The presence of S.Seifullin KATU staff, all persons specified in the program of the visit was ensured, in compliance with the established time interval.

Within the planned program, recommendations on the S. Seifullin KATU activity improvement, which had been developed by EEC according to the results of the examination, were presented at the management meeting on 08.10.2020.

## (VI) COMPLIANCE WITH INSTITUTIONAL ACCREDITATION STANDARDS

### Standard 6.1 “Management of Educational program”

#### ***Proof part***

S. Seifullin KATU has published academic policy (<https://kazatu.kz/ru/education/akademicheskaya-politika/>) describing the policy form a high-quality contingent of students; personnel policy form a high-quality teaching staff, administrative staff and employees; policy development and development of educational software and electronic educational resources; policy the selection and registration of students for academic discipline; policy planning and organization of the educational process; the policy of academic integrity and internal quality assurance; the policy of transfer, reinstatement, expulsion, and academic leave for students, including the establishment of a GPA; the policy of evaluating students academic achievements; the policy of organizing final certification; and the policy of internationalization and academic mobility. All points of the EO’s academic policy are based on separate provisions of the quality management system (“Regulations on academic quality” (SHC QMS 02.2064-2020); <https://kazatu.kz/ru/ob-universitete/sistema-menedjmenta-kachestva/>). In its published form, the academic policy of the EO is a system of rules and procedures for the organization of educational activities aimed at implementing student-oriented learning and improving the quality of education. However, it does not fully reflect the priorities and principles in the development of the university; strategic goals, the achievement of which will ensure the University access to a higher quality level; the relationship between research, teaching and training; the mechanism for developing a culture of quality assurance, as well as quality assurance guarantees in outsourcing.

At the same time, the management of the EO and the EP demonstrate the existence of transparent mechanisms for the formation (development and regular review) of the EP and its development plan with the participation of various stakeholder groups. In oral conversation the Head of the of Biological Sciences Department B. M. Aikeshev said that the procedure of updating the EP (WC, TMCD, EP development plan, etc.) is carried out in real time, not time-bound, allowing the user EP mobile to respond to proposals to change the EP from students, faculty, employers and other partners.

The accredited “6B05103-Biology” EP is undergoing primary accreditation, so students have not yet taken part in its formation, but the management of the EP has demonstrated openness to discussing proposals from students, as reported by the Head of the Biological Sciences Department in an oral conversation, and students during a meeting with EEC members. All teachers of the graduating department took part in the development of the “6B05103 – Biology” EP, which they confirmed during a meeting with EEC members, as well as representatives of employers (Minutes of the meeting of the Biological Sciences Department No. 3 dated 05.10. 2019 and No.5 dated 01.11. 2019; EP self-assessment Report, appendix 12).

The management of the EP demonstrated the individuality and uniqueness of the EP development plan, its consistency with national development priorities and the development strategy of the EO. In the description of the EP on the University website (<https://kazatu.kz/ru/belem/obrazovatel'naya-programma-biologiya/>) and the EP self-assessment report (p. 24) indicates that the development of the accredited EP was carried out with the participation of leading French scientists from AgroPariTech (Institute of Natural Sciences, Industry and the Environment – a structural division of the University of Paris-Saclay). The individuality and uniqueness of EP due to its focus on the training of specialists in the field of biology, owning modern methods of molecular genetics, cell biology, biochemistry, biophysics, bioinformatics; with advanced knowledge of the natural and information sciences, English language, capable of practical implementation of acquired knowledge in scientific or industrial laboratory biological profile, capable of entering domestic and foreign Master's degree course.



The purpose of the EP determined its content, which corresponds to the current level of development of biological sciences and is focused on the international level of research. This fully shows the EP, according to discuss, the mission and strategy of EO and demonstrates innovation management in the framework of the EP. WC of modular educational program “6B05103 – Biology” includes the modern discipline of biological profile “Genomics”, “Bioinformatics”, which reflect the results frontline international studies. The complex of “Mathematics” and “Computer Science” disciplines' blocks, implemented from the 1st year, provides a consistent comprehensive preparation for mastering bioinformatics and modern methods of statistical processing of large amounts of biological data. Within the framework of the EP, training is conducted in multilingual groups. In training, a dual technology is used, which provides for practical training on the basis of industrial enterprises, and, therefore, contributes to strengthening the practice-oriented educational process (self-assessment report, appendix.11).

To improve the quality of educational services, the management of the EP suggests the following: ensuring internal and external academic mobility of students, attracting teachers from near and far abroad, implementing a two-degree education program, etc. In order to ensure academic mobility of students, the management of the EP for the unification of the elective component studies the WCs of those universities in Kazakhstan, near and far abroad, which train bachelors in a similar EP. For example, the L.N. Gumilyov Eurasian National University.

One of the guarantees of ensuring the quality of the implementation of the EP is 100% participation of the ATS of the graduating department in research work (self-assessment report of the EP, appendix. 5). Currently ATS of the Department conducted research to target financing of MES RK, involving young teachers and students (the self-assessment Report EP, App. 5): 1) SRI “Resource potential of non-timber forest materials and their environmental safety for economic and social development of Kazakhstan regions” (2018-2020); the grant of MES of RK, the volume of moneys raised 26 million tenge Head: dr.b.sc., Associate Professor G. S.Aidarkhanova; performers: R.S. Aidarkulova, Sh.B. Abilova, L. Meiramkhan); 2) SRI “Research of the influence of environmental factors on the dynamics of the state of forest ecosystems in the steppe zone of Kazakhstan” (2018-2020), the amount of funds raised is 21 million tenge (Head: dr.b.sc., Associate Professor Sh.M. Zhumadina; performers: N.K. Dzhaksylykova, Sh.B. Abilova, K.M. Satova, J.E. Akshabakova, L. Meiramkhan).

Dr.b.sc., associate Professor G.S. Aidarkhanova is a co-executor of the SRI on grant of the Ministry of Agriculture of the RK, implemented by the Forest Resources and Forestry Department “Mycorrhizal macromycetes of major forest forming species of Central and North-Eastern Kazakhstan and their use for artificial minoritativ seedlings of forest tree species”. (2018-2020). (Head: Doctor of Agricultural Sciences, Associate Professor D.N. Sarsekova). Under the guidance of dr.b.sc., professor A.I. Gazizova performed proactive research work “Morphofunctional justification of peculiarities of organs and tissues of the immune system cattle in the age aspect” (action theme No. 0116PK00034). C.b.sc., lecturer R.S. Aidarkulova is a co-executor of the international project “Development of technology for processing poultry litter into organic biofertilizer with the help of national new biological products and their implementation in crop production” (Head: dr.b.sc., Professor A. P. Nayanova).

According to the results of scientific research in 2017-2020, teachers of the Biological Sciences Department published 8 articles in journals included in the ID (ISI Web of Knowledge, Thomson Reuters, Scopus) and 31 articles in journals recommended by the CCES (EP Self-assessment Report, p. 85; <https://kazatu.kz/ru/obrazovanie/fakulteti/kafedra-biologicheskikh-nauk/pps-kafedri-biologicheskikh-nauk/>).

The management of the EP is trained in educational management programs. So, in November 2019, the Head of the Biological Sciences Department B.M. Aikeshev participated in a training seminar at Nazarbayev University on the development of educational programs and syllabuses. ATS of the Department engaged in the development of the EP, twice (in November 2019 and February 2020) were trained at two-week seminars of Bruno Anselme-professor of biology from the Lyceum Fenelon (Paris) on the transformation of the bachelor's degree. ATS

constantly participates in methodological and scientific seminars at the intra-university, national and international levels, including on education (self-assessment report of the EP, appendix. 9-10; <https://kazatu.kz/ru/obrazovanie/fakulteti/kafedra-biologicheskikh-nauk/pps-kafedri-biologicheskikh-nauk/>).

In EO a risk management procedure has developed and approved (The Regulation on the procedure for determining and managing risks in S. Seifullin Kazakh Agro Technical University JSC (QMS 11010-2016)). The EP's management assesses the main risks of the EP and includes in the EP Development Plan activities aimed at their management. For example, one of the risks of “6B05103-Biology” EP is the absence of teachers trained at the modern scientific level for teaching the disciplines “Genomics”, “Bioinformatics”, taught at senior courses at the beginning of the educational program implementation. The Head of the Department submitted an intend to the MES of the RK for relevant professionals, and also the system of measures on preparation in the direction of young teachers was developed, including targeted training in PhD-doctoral studies in foreign universities was provided. The university has a regulatory framework for the organization of targeted training of PhD doctors (“The Regulations on the organization of training of masters and PhD doctors in the framework of integration with research institutes, foreign and domestic scientists” (QMS 11010.97-2014)).

One of the challenges of high-quality implementation of the EP was the forced transition of the university to a distance learning format. In this regard, the Head of the Department, who had previously been trained in the education management program, held 3 cathedral methodological seminars on distance learning technologies (Self-assessment report of the EP, p. 61-62).

One of the conditions for minimizing the risks of implementing the EP is a clear definition of those responsible for business processes within the EP, an unambiguous distribution of job responsibilities of personnel, and differentiation of the functions of collegial bodies. This was confirmed during the discussions of EEC members with the Dean of the Faculty of Agronomy, Head of the Department of Biological Sciences, students. Students at the meeting with EEC members confirmed the clear distinction between the official duties of advisors and curators of student groups, which is reflected in the relevant documents of the QMS (“Adviser-academic consultant of students” (MI QMS 02.2016-2019; “Activities of the curator and the monitors of student groups” (MI QMS 04.4003-2020)).

The quality management system has been implemented in the EO, which in 2005 was certified according to international standards IOS 9001-2015. Maintaining the quality management system in working order is carried out through the improvement of the internal regulatory framework, which includes more than 300 documents, through systematic internal audit, as well as inspection control by the certification body (Self-assessment report, p. 32; <https://kazatu.kz/ru/ob-universitete/sistema-menedjmenta-kachestva/>).

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

The EO has a published academic policy, which is a system of rules and procedures for organizing educational activities aimed at implementing student-oriented learning and improving the quality of education. All points of the academic policy are based on separate provisions of the quality management system. However, it does not fully reflect the priorities and principles in the development of the university; strategic goals, the achievement of which will ensure the University access to a higher quality level; the relationship between research, teaching and learning; a mechanism for developing a culture of quality assurance, as well as quality assurance guarantees in outsourcing.

The management of the EO and the EP demonstrate the existence of transparent mechanisms for the development and regular review of the EP and the development plan of the EP with the participation of different stakeholder groups. EO presented materials reflect the compliance of accredited EP mission and strategy of the University, the policy of the Republic of Kazakhstan in the field of science and education, the needs of national labor market and available educational resources of the organization.

The management of the EP is trained in educational management programs.

The EP management demonstrates openness and accessibility for students, ATS, employers and other interested parties.

The management of the EP demonstrates the individuality and uniqueness of the development plan of the EP, the provision of its human resources.

The management of the EO and the EP demonstrate a clear definition of those responsible for business processes within the EP, an unambiguous distribution of job responsibilities of personnel, and a differentiation of the functions of collegial bodies.

The management of the EP demonstrates risk and innovation management in the context of the EP.

The EO has a certified quality management system managed by systematic internal audit and inspection control procedures by the certification body.

#### ***Strengths/best practice***

1) The EP's management has shown a willingness to ensure transparency of the development plan of EP based on the analysis of its functioning, the actual positioning of EO and focus its activities to meet the needs of the state, employers, students and other stakeholders.

2) The EO demonstrates a clear definition of those responsible for business processes within the framework of the EP, an unambiguous distribution of staff responsibilities, and the differentiation of functions of collegial bodies.

3) The EP's management demonstrates evidence of readiness for openness and accessibility for students, ATS, employers and other interested parties.

4) The management of the EP is trained in educational management programs.

#### ***Weaknesses***

The EO did not demonstrate the existence of a single document describing the quality assurance policy, revealing priorities and principles in the development of the University; strategic goals, the achievement of which will ensure the University access to a higher quality level; the relationship between research, teaching and training; the mechanism for developing a quality assurance culture, as well as quality assurance guarantees in outsourcing.

#### ***EEC Recommendations***

- Develop, publish and implement in the activities of the EO a single document defining the policy of ensuring the quality of the EP, including internal and external control mechanisms, quantitative criteria for evaluating and developing the quality of the EP.

- To increase the quantitative and regional representation of employers involved in decision-making on the management of EP at all stages of its implementation, starting with the professional orientation of applicants, ending with the employment of graduates.

***The EEC conclusions about “6B05103-Biology” EP, by criteria according to the standard: strength – 3, satisfactory - 11, implies improvement -1.***

#### ***Standard 6.2 “Management of information and Reporting”***

##### ***Proof part***

The University and the Department have built a system of interaction with all stakeholders: the state, local authorities, employers, applicants and their parents, students and their parents, partner universities. Interaction between the subjects of the internal and external environment is carried out through a system of information collection, analysis and management, based on the use of modern information and communication technologies and software. The main information flows are implemented through the web resources of the official website of S.Seifullin KATU (<https://kazatu.kz/ru/>), “Platonus” automated information system, “Moddle” information system (<https://moodle.kazatu.kz/login/index.php>), “Unihub” automated system for checking written works (<https://unihub.kazatu.kz/>), an educational portal (<http://portal.kazatu.kz/>), corporate email [kazatu.kz](mailto:kazatu.kz), Mooc – national open education platform of

Kazakhstan (<http://moocs.kz/>), an electronic library (<http://portal.kazatu.kz/e-books/>), social networks such as Facebook, Instagram, Vkontakte, WhatsApp messenger, etc. The most important part of the University information infrastructure is a library (<https://library.kazatu.kz/o-biblioteke/informatsiya-o-biblioteke>). Since 2013, the library's information capabilities have been significantly expanded through membership in the Association of University Libraries of the Republic of Kazakhstan (AUL of the RK).

Information management processes are carried out in accordance with the “Regulations on the Informatization Council of S. Seifullin KATU” JSC(RIC of the QMS 09.9017-2017) and “Regulations on the Information Technology Department” (RITD of the QMS 12030-2014), created by Order of the Chairman of the Management Board No. 551 dated 01.10.2013 on the basis of the recommendation of the University Board.

The official website of the University is aimed at both internal and external users. It provides basic information about the University and the implemented EP in three languages (Kazakh, English, Russian), including the academic policy that reflects the mission, goal, objectives, and strategic directions of the University development. The University website contains basic information about structural units and ATS. Information about ATS of the accredited EP is given in the section “Faculties and Departments”, the tab “Biological Sciences Department” (<https://kazatu.kz/ru/obrazovanie/fakulteti/kafedra-biologicheskikh-nauk/>). In the same section, updated information about the activities of the Department is provided (about the history of the Department's formation, the ATS, the directions of scientific work of teachers and students, events held by teachers as curators of student groups, about organizations-scientific and educational partners of the Department, etc.). The official website provides the possibility of feedback from users of the resource. So, each visitor of the site in the section “Rector's Blog” in the format of a live feed can write a question, leave a comment or a complaint. in the "Contacts" section (<https://kazatu.kz/assets/i/deps/Binder-ru.pdf>) phone numbers and e-mail addresses of Heads of structural units are given.

Through the Platonus AIS, the internal management of the educational process is carried out (“Regulations on the management of the educational process in the Platonus AIS of S. Seifullin KATU”, RMEPAW of the QMS 11010.107-2015). In this web resource, unified databases on students and graduates are formed, which are the basis for monitoring the results of training, subsequent employment and career advancement of graduates.

Groups in the WhatsApp messenger serve as a means of rapid dissemination of information and feedback to students and other interested parties.

Corporate e-mail [kazatu.kz](mailto:kazatu.kz). is used to promptly inform teachers and University staff.

Via the “Moddle” platform (<https://moodle.kazatu.kz/login/index.php>) remote access of students to educational and methodical materials is provided, direct and feedback of ATS and students is carried out.

The activities and events of the University and the Department are also reflected in the social networks such as Facebook, Instagram, VKontakte and in the MM.

The University website contains information about the ranking of students by specialty at the end of each academic semester (<https://kazatu.kz/ru/education/studentam/akademicheskiereytingi/>). The effectiveness of assessment procedures is determined according to the document “Knowledge control and final certification of students” (AS of the QMS 02.2007.2020). Transparency of assessment procedures and technological support of students is achieved with the help of the electronic journal Platonus.

ATS, students, and employers are involved in the processes of collecting and analyzing information through questionnaires, interviews, and making decisions based on them. Students participate in the process of planning, implementing, and monitoring the educational process through the university-wide youth organizations “Council of Young Scientists”, “Debate Club “Amanat” ” and other student associations (<https://kazatu.kz/ru/rabota-s-molodejyu/klubi/tvorcheskie-klubi/>).

University systematic anonymous surveys of students to assess satisfaction with the quality of educational services, educational environment and support systems of students, a survey of ATS and personnel on satisfaction with working conditions, management activities, the implementation of the EP.

The university has established the procedure and ensured the protection of information, including those responsible for the reliability and timeliness of information analysis and data provision. Information in the “Platonus” AIS is available only to employees and students of the University who have logins and passwords (regulation “On password protection” of the MI QMS 110.27-2016). The University ensures the protection of information about the contingent, which is stored in a specialized database.

The analysis of information is carried out by methods of comparison of indicators, the evaluation criteria of which are set out in the regulations on internal and departmental regulatory documents. One of the methods of information analysis at the University is rating analysis, aimed at stimulating professional growth, productivity of pedagogical and scientific work, creative initiative of ATS.

The results of the analysis of information on various aspects of the implementation of the EP are reflected in certificates, reports of structural units of the University and are provided to responsible persons for making decisions on improving the process. Information on the development, approval and implementation of the EP is discussed at meetings of all structural units involved in their implementation. The University has established the frequency, forms and methods of assessing the management of the EP, the activities of collegial bodies and structural units, and top management.

To prevent conflict situations at the University approved and put into effect the documents “Regulations on the internal rules of “S. Seifullin Kazakh Agro Technical University” JSC” (RIR of the QMS 11010.52 – 2018), “Regulation of ethical rules of business conduct of employees of “S. Seifullin KATU” JSC” (RERBCE of the QMS 11010.125-2015), “Regulations on anti-corruption and disciplinary Commission of “S. Seifullin KATU” JSC” (RADC of the QMS 11010.127-2015), “Regulations on the procedure for consideration of complaints of students by the University Management” (RPCCSUM of the QMS 04.4005-2019), “Regulations on the procedure for consideration of complaints from employees” (RPCCE QMS 11010.85-2014).

The collection and processing of personal data of ATS and students at the University is carried out with their written consent (PD 04.01-2014 “Regulations on the storage of personal data of University employees”).

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

For adequate information management, the University uses modern information systems, information and communication technologies and software, the functioning of which is regulated by the University regulatory documents:

The management of the EP demonstrates the existence of communication mechanisms with all stakeholders, the availability of opportunities for their participation in the formation and development of the EP, the systematic use of processed, adequate information to improve the internal quality assurance system.

The management of the EP uses a variety of tools to provide all interested parties with all the necessary information on the EP.

The University has mechanisms for resolving and preventing conflicts, protecting the personal information of students, ATS and employees.

#### ***Strengths/best practice***

1) The EO demonstrates the existence of a system for collecting, analyzing and managing information based on the use of modern information and communication technologies and software tools and uses a variety of methods for collecting and analyzing information in the context of the EP.

2) The EO has established the frequency, forms and methods of evaluating the management of the EP, the activities of collegial bodies and structural units, senior management, and the implementation of scientific projects.

3) The management of the EP demonstrates the existence of a mechanism for communication with students, employees and other stakeholders, as well as mechanisms for conflict resolution.

4) The EO confirms the implementation of the procedures for processing personal data of students, employees and ATS on the basis of their documentary consent.

#### ***Weaknesses***

The criteria for determining the effectiveness of student assessment procedures are not sufficiently transparent.

#### ***EEC Recommendations***

- Develop and include in the system of collection and analysis of information on EP clear quantitative indicators for determining the effectiveness of student assessment procedures.

***The EEC conclusions about “6B05103-Biology” EP, by criteria according to the standard: strength – 4, satisfactory - 11, implies improvement -1.***

#### ***Standard 6.3 “Educational program development and approval”***

#### ***Proof part***

The content of the “6B05103 – Biology” EP was developed in accordance with the Dublin descriptors and the European frame of qualifications on the basis of the SMS HE, approved by order of MES of the RK № 604 dated 31.10. 2018), and in accordance with the classifier of areas of education and training with higher and postgraduate education (Approved by the order of MES of the RK № 569 dated 13.10.2018 g), is implemented through the curriculum (standard, individual and work) and programs (standard and syllabus).

Based on the regulatory documents of the Republic of Kazakhstan in the field of regulation of higher and postgraduate education, S. Seifullin KATU has developed the ES QMS 4.3.01-2014 standard “Design and development of educational services”, which regulates the rules for the development and approval of educational programs.

The procedure of discussion of the EP is reflected in the minutes of the faculty meeting of the academic Council of the faculty educational-methodical Council and Academic Council of the University. The specialty's EP is approved by the Academic Council of the University. The EP is accessible to all interested parties through the website: <https://kazatu.kz/ru> electronic document management system.

The EP in the “6B05103-Biology” specialty is developed on the basis of specialty's SC, taking into account the needs of potential employers. The developers of the EP are the ATS of the Department – leading specialists in the fields of science and education in the profile of the EP. Discussion of the EP is carried out at a meeting of the Department with the participation of employers and students (Minutes of the meeting of the Department of Biological Sciences No. 3 dated 05.10. 2019 and No. 5 dated 01.11. 2019; Report on the self-assessment of the EP, appendix.12).).

In order to assess the quality of EP, the University has proven mechanisms for internal quality assessment and expertise, documented in the framework of the QMS.

A competence model of graduates, representing a system of professional, personal and metasubject competencies, has been developed for the EP. The analysis of the competence model of graduates indicates its compliance with the goals and objectives of the EP. The competence model of EP graduates is published on the University website in the section “Educational programs”, the tab “Educational program “Biology”” ([kazatu.kz/ru/belem/obrazovatel'naya-programma-biologiya/](https://kazatu.kz/ru/belem/obrazovatel'naya-programma-biologiya/)).

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

The complexity of EP is clearly defined in Kazakhstan credits and ECTS.

The WC of the modular educational program “6B05103-Biology” was developed with the participation of B. Anselme, professor from the Lyceum Fenelon (Paris) (Self-assessment report of the EP, p. 51). The WC of the accredited EP provides for various activities that correspond to the planned learning outcomes. The EP includes modules of theoretical training (socio-political disciplines, social, language, physical education, computer science, biology, physics, general biology, chemistry, mathematics), including cycles of basic and core disciplines; modules of all types of practice (educational, industrial and pre-graduate), the module of final certification and additional types of training. Each of the cycles of disciplines consists of compulsory and elective components in the proportions established by the SC. The curriculum of the accredited EP follows the logical sequence of the subjects studied, taking into account pre- and post-requirements. The disciplines of the theoretical training modules correspond to the specialty. The analysis of TMCD showed that the content of the studied disciplines corresponds to the level of training (bachelor degree course).

Organization and practical training is carried out in accordance with the document “Procedure for organizing and conducting practical training of students” (MI QMS 02.2017-2020).

The list of elective component disciplines was formed with the participation of leading scientists of the French Institute of Natural Sciences, Industry and the Environment (EP Self-assessment Report, p. 42).

The content of the EP and the organization of the entire educational process are aimed at preparing students for professional activities. At the same time, the EP does not provide for special measures to prepare students for professional certification.

In order to ensure the quality of educational services in the modern labor market, characterized by high speed and unpredictability of changes, the management of the EP plans to regularly review and adjust the list and content of the disciplines of the EP. It is planned to discuss and make changes to the EP at least once at the end of the academic year with the involvement of employers and students. The needs of students in the formation of EP can be met when choosing elective courses.

Development and evaluation of the effectiveness of the development plan of EP is based on the “Regulations on the procedure for the development plan of the educational program and monitoring its implementation” (RPDPEPMI QMS 02.2034-2018).

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

The EO has defined and documented procedures for the development, approval of the EP at the institutional level, procedures for the development of the EP development plan and monitoring its implementation.

The accredited EP corresponds to the established goals and planned results of training, has passed an external quality assessment by leading scientists of a foreign university. The description of the EP includes a graduate model that describes the subject, personal and meta-subject learning outcomes, and corresponds to the goals and objectives of the educational program.

The EP provides for various activities that correspond to the planned learning outcomes. The WC of the EP provides theoretical disciplines and practices that ensure the formation of professional competencies in accordance with the specifics of the EP.

The labor intensity of EP is clearly defined in Kazakhstan credits and ECTS. The qualifications obtained upon completion of the EP are clearly defined, explained and correspond to a certain level of the NQS.

#### ***Strengths/best practice***

1) The EO has defined and documented procedures for the development of EP and their approval at the institutional level.

2) The qualification awarded upon completion of the EP is clearly defined and corresponds to a certain level of the NQS.

3) The labor intensity of EP is clearly defined in Kazakhstan credits and ECTS.

#### **Weaknesses**

The management of the EP has not demonstrated the possibility of preparing students for professional certification.

#### **EEC Recommendations**

- Develop and include in the development plan of the EP measures to prepare students for the professional certification procedure.

***The EEC conclusions about “6B05103-Biology” EP, by criteria according to the standard: strength – 3, satisfactory - 8, implies improvement -1.***

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

#### **Proof part**

On the basis of the University, Faculty and Department, consistent procedures for regular monitoring, periodic evaluation and updating of the “6B05103 – Biology” EP are implemented, aimed at achieving the goals of the EP, forming planned learning outcomes in accordance with the needs of students and society, ensuring the quality of learning outcomes and the competitiveness of graduates of the EP. Monitoring and periodic assessment include analysis of forecasts of the demographic situation and the need for specialists in the region and the Republic. The University and the Department provide procedures for the development of EP in accordance with changes in the needs of society, the educational environment and the satisfaction of employers with graduates of EP. There is a mechanism of interaction of the graduating department with organizations on the profile of the EP for the purpose of feedback aimed at identifying the needs of employers and obtaining recommendations for the development of the EP. This was confirmed by employers at a meeting with EEC members held on 07.10.2020. K.S. Izbastina, a researcher at the Astana Botanical Garden, a branch of RSE on the BREM, “Institute of botany and Phytointroduction of CFW MEGNR of the RK”, attended the meeting on the accredited EP.

The procedure for monitoring, evaluating and updating the EP provides for: 1) survey of students, teachers, employers; 2) analysis of progress of students; 3) analysis and improvement of the educational environment, including the content of educational-methodical complexes of disciplines, assessment tools for current and intermediate certification, programs and results of the final certification; 4) analysis of results of open classes and results of reciprocal visiting of classes; 5) analysis of logistics; 6) analysis of the e-learning environment; 7) analysis of employment of graduates.

Monitoring of academic achievements, students and academic performance of students is carried out twice a year at the end of the semester. The frequency of other types of monitoring is once a year.

External control of efficiency of implementation of the EP is in the process of the SAC, with the certification and accreditation of the University, by practice, of writing dissertations.

The University and the management of EP have presented evidence of the involvement of employers and other stakeholders in the development of EP (the minutes of the meeting of the Department of Biological Sciences No. 3 dated 05.10. 2019 and No. 5 dated 01.11. 2019; the Self-assessment Report EP, pp. 49, 51; see app.12). Proposals from interested parties to improve the EP can be received both through communicative means of communication (on the website of the University through the Rector's blog, by e-mail, when interviewing and questioning employers), and in person (during the reception hours of visitors; speeches at the Academic and Board of Trustees of the University).



There is a mechanism for informing all stakeholders about the implementation of the EP, including changes made to the EP (see the description of the standard “Information Management and Reporting”).

***Analytical part***

In S. Seifullin KATU a continuous monitoring and periodic evaluation of the quality of the EP has developed and operates, which are the structural units of the University: departments, Dean's offices, Department of academic Affairs, educational advice and quality service. This process includes: a survey of students, graduates, faculty, employers; analysis of the assessment system and progress of students; analysis of resource and information provision of EP; assessment of the level of competence of the ATS; the degree of compliance with EP requirements.

The EP is reviewed once a year, taking into account changes in the labor market, the needs and proposals of different interested parties groups, and the latest scientific achievements in specific disciplines. Participation in the development of the processes of evaluation, analysis and continuous improvement of the EP is regulated in the job descriptions of teachers and employees.

***Strengths/best practice***

In EO, a system of monitoring and periodic evaluation of the EP, including: changing societal needs and professional environment; expectations, needs and satisfaction of students learning via the EP; educational environment and support services, and their consistency with the objectives of EP.

***Weaknesses***

The EP management has not demonstrated the effectiveness of student assessment procedures.

***EEC Recommendations***

- Pay more attention to the development of evaluation materials using a variety of methods for evaluating learning outcomes.
- To include in TMCD detailed criteria and methods of assessment of educational achievements of students.

***The EEC conclusions about “6B05103-Biology” EP, by criteria according to the standard: satisfactory - 8, implies improvement -1.***

*Standard 6.5 “Student-centered Learning, Teaching and performance assessment”*

***Proof part***

During the meetings with the Heads of EP, teachers and students, evidence was obtained of the implementation of the principle of student-centered learning in the educational activities of the University.

Student-centred learning is evident in the account in the development EP the interests of different student groups, first of all, the University offers the opportunity to study in different languages (Russian, Kazakh) (EP Self-assessment Report, p. 57; “Regulations on the organization of multilingual education in S. Seifullin Kazakh Agro Technical University” (ROME QMS 05.5001-2020)). A number of academic subjects will be taught in English (molecular biology, biochemistry, genetics) (EP Self-assessment Report, p.63). Students are constantly promptly informed about the implementation of the program (changes in the schedule of training sessions, etc.) by the adviser, curator, teachers, head of the department through the head of the group, social networks, etc.

The principles of student-centered learning are implemented in the educational process through changes in the student's role in learning – increasing the role of independent classroom and extracurricular work of students, the use of modern teaching methods and technologies by teachers: information and communication technologies, modular learning technology, interactive

teaching methods (didactic games, subject Olympiads, solving situational problems, problem-based learning, working in small groups, various types of lectures, etc.) (Self-assessment report of the EP, p. 61), distance education technologies (“Regulations on the organization of the learning process on distance educational technologies in S. Seifullin KATU” (ROLPDET QMS 02.2024-2019); “Regulations on content, tests for distance learning” (RCTDL QMS 02.2026-2019), technology of dual training (“Regulations on the procedure for organizing and conducting dual training in S. Seifullin KATU” (RPOCDT QMS 11010.132-2016)).

ATS of the department of biological sciences actively improve their skills in the direction of mastering modern educational technologies, including studying the experience of foreign educational systems (<https://kazatu.kz/ru/obrazovanie/fakulteti/kafedra-biologicheskikh-nauk/kalashinova-lyazat-kuandikovna/>; <https://kazatu.kz/ru/obrazovanie/fakulteti/kafedra-biologicheskikh-nauk/aljapparova-jumakul-kabdulmalikovna/>; <https://kazatu.kz/ru/obrazovanie/fakulteti/kafedra-biologicheskikh-nauk/jumadina-sholpan-moldajanovna/> (see also the description of the “ATS standard”). After training in advanced training courses and scientific and methodological seminars, the obtained pedagogical experience is discussed at the scientific and methodological seminar of the Department (Report on self-assessment of the EP, p. 61-62).

Students are provided with flexible learning paths, there is a real opportunity to choose an individual educational path. Students with the help of advisors form ISP in combination with SC and CED, on the basis of which WCs are formed. Thus the University implements one of the most important conditions of the modern educational environment – the mobility of curricula formed with the participation of students themselves.

The management of the EP supported the autonomy of students with simultaneous guidance and assistance from teachers. The latter is also carried out during extracurricular activities in the form of individual counseling.

Teachers of the Department of Biological Sciences are actively working in the direction of preparing educational and methodological publications that accompany the educational process. According to the “Report on self-assessment of undergraduate educational programs “6B05103-Biology” within the framework of specialized accreditation of the IAAR” (p. 85) over the past 3 years, teachers of the department have prepared 3 textbooks and 5 study guides, among which there are publications in English and Kazakh: 1) Zh.K. Alzhapparova and others, Clonal reproduction of woody and shrubby plants, Textbook, Astana, 2016; 2) Sh. M. Zhumadina, L.T. Bulekbayeva, N.E. Tarassovskaya, Human and animals physiology, Study guide – Paris.: Imprimeen France, Editions du JIPTO- FRANCE. 2017- 169; 3) Sh.M. Zhumadina, Human and animal physiology, Textbook (REMC) - Pavlodar.: Kereku Publishing house. 2017-p. 160 and others.

Experienced teachers of the Department have publications on their methodological developments, including the use of interactive educational technologies: professor A.I. Gazizova (Intellectual olympiad), associate professors Sh.M. Zhumadina (Case-study), A.K. Dzhaksylykova (Mind maps), A.P. Muranets (Work-shop) (Self-assessment Report EP, p.108).

EP's and students' management during meetings with members of the commission demonstrated the existence of a procedure for responding to complaints of students “Regulations on the procedure for considering complaints of students by the University management” (RPCCSUM of the QMS 04.4005-2019), including the possibility and clearly regulated procedure for filing an appeal by students.

Heads EP demonstrated designed according to the criteria of QMS of consistent, transparent, objective evaluation of academic achievements of students, providing different forms and methods of control (control questions, test tasks, situational tasks, etc.), as well as feedback from students. Requirements for the system of control of educational achievements of students are fixed in the document approved by the University “Control of knowledge and conducting the final certification of students” (AS of the QMS 02.2007-2020). The actual criteria

and evaluation methods of learning outcomes are communicated to students through the TMCD including the work programme (Syllabus) (“The Structure, content, procedure of development and approval of educational and methodical complex of educational programs and educational-methodical complex of the discipline” (AS QMS 02.2008-2019)), and also through normative document “Methodology of conducting IWS and IWSUGT at the S. Seifullin Kazakh Agro Technical University” (MI QMS 02.2011-2019). The evaluation tools presented by the Department correspond to the goals and objectives of both individual academic disciplines and the EP as a whole.

Through a survey of students, the management of the EP monitors their satisfaction using various teaching methods and evaluating learning outcomes.

To ensure the development of each graduate of the EP learning outcomes at the University, a feedback system has been built with students: student-curator – Head of the Department-Dean – Department of Academic Affairs-Representative of the Quality Management.

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

Within the framework of the accredited EP, conditions are created to meet the educational needs of various groups of students and implement flexible learning paths. The management of the EP demonstrates the introduction of the principle of student-centered learning into the educational activities of the University, support for the autonomy of students with simultaneous guidance and assistance from the teacher.

ATS implementing an accredited EP uses various forms and methods of training; improves their skills in the field of modern teaching methods and educational systems. The pedagogical experience gained during professional development is discussed at the scientific and methodological seminar of the department.

The procedures for evaluating learning outcomes are documented and correspond to the planned learning outcomes and goals of the EP. The EO and the EP management demonstrate their consistency, transparency and objectivity. Students are familiarized with the evaluation criteria and methods in advance. The University has defined mechanisms to ensure that each graduate of the EP develops learning outcomes, as well as documented procedures for responding to students' complaints.

The management of the EP provides feedback on the use of various teaching methods and evaluation of learning outcomes through a questionnaire of students.

#### ***Strengths/best practice***

EP's management demonstrates respect and attention to the various students' groups and their needs, provides the possibility of flexible learning paths; demonstrates the presence of mechanisms to support the autonomy of students with simultaneous guidance and assistance from the teacher.

#### ***Weaknesses***

The management of the EP did not demonstrate the existence of its own research of teaching staff in the field of teaching methods of educational disciplines of the EP.

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

- Organize professional development of the entire academic teaching staff implementing the EP in the areas of “Modern educational technologies)/“Modern teaching methods”, “Modern methods (means) of evaluating learning outcomes”, etc.

- To organize research work of teachers of the Department in the field of teaching methods of academic disciplines.

***The EEC conclusions about “6B05103-Biology” EP, by criteria according to the standard: strength – 1, satisfactory - 8, implies improvement -1.***

## Standard 6.6. “Students”

### ***Proof part***

The policy of forming a contingent of students at S. Seifullin KATU is aimed at admission to the number of students who are most prepared for studying at the University, taking into account the specifics of the direction (Biological and related Sciences (biotechnology)) consciously chose a specialty and scored the required number of points (not less than 60) according to the results of the UNT or CT (for College graduates). Admission of applicants is governed by the “Regulations on Admissions Committee” (RAC QMS 02.2058-2019), Model rules of admission for training in organization of education realizing professional training programs of higher education (Approved by the RK Government Regulation No. 600 dated 31.10.2018; <http://adilet.zan.kz/rus/docs/V1800017650>), "Rules of awarding educational grants to pay for higher or postgraduate education with the award of the “bachelor” or “master” degree (RK Government Decision No. 58 dated 23.01.2008).

For the purpose of admission of foreign applicants, preparatory courses are held (“Regulations on the organization of preparatory courses for foreign citizens for admission to universities in Kazakhstan, including the NJS S. Seifullin KATU” (ROPCFCAUK QMS 05.5006-2020)).

In 2020, 7 students on educational grants and 10 students – on places with full payment of tuition fees entered the “6B05103 – Biology” EP at S. Seifullin KATU.

To adapt the incoming students (including foreign students), the University has created a service of advisors and curators. The curator of the 1st year students' group studying under the accredited EP is assistant of the Department of Biological Sciences L. Meiramhan.

To adapt the incoming 1st year students, a presentation week is held from September 1 to familiarize them with the basic rules and regulations of the credit form of education, the formation of the learning trajectory. Each student is provided with a reference guide, which provides step-by-step information about the educational process for the entire first year of study.

Introductory course on EP are conducted by experienced and highly qualified lecturers and professors of the Department (B.M. Aikeshev, A.I. Gazizova, G.S. Aidarkhanova, Sh. M. Zhumadina). For foreign students additionally work Department of International Relations.

The students of the University are provided with hostel. Their provision is 85%. Gifted students receive support in the form of increased scholarships, discounts on tuition fees, etc. This was confirmed by the students at a meeting with EEC members (“Regulations on the Procedure for Providing Hostels to Students at “S. Seifullin KATU” JSC” (RPPHS QMS 11010.96-2016)).

To ensure the response to the needs of students in S. Seifullin KATU since 1.03.2018, the Student Service Center (SSC) has been functioning (<https://kazatu.kz/ru/coo/osnovnie-funkcii-centra-obslyujvaniya-obuchayushchihsya-coo/>), working on the principle of one window, where students receive high-quality and fast service on all social and academic issues.

The University provides recognition of qualifications obtained in other countries. In accordance with the Lisbon Recognition Convention, training is conducted on a credit system with a transfer to ECTS values. The results of training are represented by the issued transcripts. When transferring and restoring the achieved results of training, positive assessments of the student are recognized with the transfer of academic credits from one EP to another, from one educational organization to another.

Persons educated in other States, in International or Foreign Educational Institutions (their branches) should go through the procedure of nostrification of documents on higher education in accordance with the “Rules of Recognition and Notrification of Education Documents” (App. by the order of MES RK № 8 dated 10.01.2008 (edition No. 125 dated 16.03.2017). On the site of S.Seifullin KATU ([kazatukz](http://kazatukz)) applicant can see the terms and conditions and documents for nostrification of the document on education in S. Seifullin KATU.

The University and the management of the EP demonstrate opportunities for external and internal mobility (<https://kazatu.kz/ru/education/studentam/organizaciya-vnutrenney-akademicheskoy-mobilnosti/>) EP students and assistance in obtaining external grants for training (<https://kazatu.kz/ru/education/studentam/obrazovatelnie-kredit-pod-garantiyu-ao-finansoviy-centr-mon-rk/>; <https://kazatu.kz/ru/education/studentam/informaciya-o-vakantnih-obrazovatelnih-grantah/>). Conditions for the organization of academic mobility and recognition of learning outcomes in foreign universities are described on the University website in the section “Academic policy” (<https://kazatu.kz/ru/education/akademicheskaya-politika/>).

According to MI QMS 02.2017-2017 “Methodical instruction. Procedure for organizing and conducting practical training of students” the Department is responsible for practice for: development and approval of practice programs; educational and methodological guidance of practice in terms of providing programs, plans, guidelines, and so on; informing students about the terms of practice and protection of reports; selection of practice bases and conclusion of contracts with them; distribution of students to places of practice and selection of managers; instructing; distribution of practice diaries; implementation of control over the course of the practice; creation of a Commission for the protection of practice reports; provision of a report on the results of the practice with suggestions for improving its organization.

The University has a Department for work with graduates, based on the QMS 4.12.01-2019. “Management of the process of distribution of graduates”. The process of distribution of graduates is carried out by organizing and holding a fair of graduates for the purpose of their employment. The University career and business center oversees the employment of graduates.

The University has an alumni Association that sponsors low-income students and provides employment assistance.

Through the University website, the “Extension-KATU” knowledge dissemination office provides assistance to novice farmers and young specialists.

In successful EP graduates are awarded the academic degree in accordance with “State classifier of specialties of higher and postgraduate education of Kazakhstan” (Approved by the order of MES RK № 569 dated 13.10.2018). Graduate of a bachelor degree, passing the final state certification, decision, the SAC awarded the academic degree of bachelor and the diploma of the state sample with the transcript.

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

S. Seifullin KATU has a transparent policy of forming a contingent of students, approved procedures that regulate the life cycle of students from admission to graduation and further employment.

The management of the EP demonstrates its full compliance with the criteria of the standard “Students”.

#### ***Strengths/best practice***

1) the EO demonstrates the existence of a policy for the formation of a contingent of students in the context of EP from admission to graduation and ensuring transparency of its procedures. The procedures governing the life cycle of students (from admission to completion) are clearly defined, approved, and published.

2) the management of the EP determines the order of formation of the contingent of students, based on: minimum requirements for applicants; the maximum size of the group when conducting seminars, practical, laboratory and Studio classes; analysis of available material and technical, information resources, human resources; analysis of potential social conditions for students, including the provision of places in the hostel.

3) the management of the EP demonstrates its readiness to conduct special adaptation and support programs for newly enrolled and foreign students.

4) EO provides the opportunity to provide graduates with EP documents confirming obtained qualifications, including achieved learning outcomes and the context, content and status of education and evidence of its completion.

### **Weaknesses**

They are not revealed.

### **EEC recommendations**

- Develop opportunities for external and internal mobility of EP students.

**The EEC conclusions about “6B05103-Biology” EP, by criteria according to the standard: strength – 8, satisfactory –6.**

### Standard 6.7 “Academic Teaching Staff”

#### **Proof part**

The personnel of the EP is completed in accordance with the law and "Rules of Competitive Replacement of Posts of the Academic Teaching Staff and Scientific Workers of Higher Educational Institutions" (Approved by order of the Minister of Education and Science of the RK dated 23.04.2015, No. 230), "Regulations on Rules of Competitive Replacement of vacant Posts ATS and Scientific Employees of “S. Seifullin Kazakh Agro Technical University” JSC” (RRCRPATSE QMS 11010.131-2016; <https://kazatu.kz/assets/i/deps/klassifikator-2019.pdf>), “Regulations on the Invitation and Remuneration of Specialists with Work Experience in Production for teaching at S. Seifullin KATU” (RIRSWEP QMS 07.7024-2018) “Regulations on the Procedure for Advanced Training of Employees of “S. Seifullin KATU” JSC” (RPATE QMS 10010. 346-2012).

Welcome to the posts shall be in accordance with the “Regulations on the attestation of the ATS at “S. Seifullin KATU” JSC” (RAATS QMS 11010.99 - 2015), “Regulation on order of assignment of academic titles of associate Professor (docent), Professor and honorary Professor at “S.Seifullin Kazakh Agro Technical University” JSC” (ROAATAPPHP QMS 11010.103 - 2014). The reason for the dismissal of the ATS may be non-compliance with the internal regulations stipulated by the "Regulations on the internal regulations of “S.Seifullin Kazakh Agro Technical University” JSC” (RIR QMS 11010.52-2018), “Regulations on ethical rules of official behavior of employees of “S.Seifullin KATU” JSC” (REROBE QMS 11010.125-2015), “Regulations on the anti-corruption, disciplinary Commission of S.Seifullin KATU” (RADC QMS 11010.127-2015).

At the Department of biological Sciences, established on 16.02.2018 and from 2020-2021 academic year, which is the graduating Department of the “6B05103-Biology” EP, currently, according to the “Staff schedule of the Department of Biological Sciences for 2020-2021 academic year”, 24 teachers work. Basic and postgraduate education of all teachers corresponds to the profile of the disciplines read, the positions held. The share of teachers with academic degrees is 79.2%, including doctors of science-12.5%, PhD - 20.8%, candidates of science-45.8%, masters-20.8%. Information about education, academic degrees and titles of teaching staff is presented on the page “Department of Biological Sciences” in the tab “Academic Teaching Staff” (<https://kazatu.kz/ru/obrazovanie/fakulteti/kafedra-biologicheskikh-nauk/>) on the official website of the University.

Currently, 3 doctors of biological Sciences (associate Professor A.S. Aidarkhanova; Professor A.I. Gazizova; associate Professor Sh.M. Zhumadina), 5 Phd doctors (senior teachers - B. I. Aikeshev (The Head of the Department), R.Z. Asylhanova, L.K. Kalashinova; part-time workers – K.S. Izbastina, S.A. Kubentaev), 3 candidates of biological sciences (senior teachers - Sh.M. Abeuova, R.S. Aidarkulova, L.T. Bulekbaeva), 7 candidates of veterinary sciences (associate professors – S.A. Ashimov, S.M. Imbay; senior teachers – N.A. Akhmetbekov, N.B. Akhmetzhanova, A.G. Kairzhanova, L.M. Murzabekova, A.S. Tozhybaeva), 1 candidate of agricultural sciences (associate Professor A.K. Dzhaksylykova), 4 masters of veterinary sciences (senior lecturer A.F. Akimbekova; assistants – A. Arystanbay, Zh. Kozhabek, L.Meiramkhan), 1 master of economic sciences (adviser- B.M. Orazalina) participate in the implementation of the accredited EP.

5 teachers of the Department (21%) teach classes in English, 4 teachers (16.7%) – in Russian, 15 people (62.5%) – in the state language.

Teachers of the Department are involved in the international scientific and educational space. So, the Head of the Department – B.M. Aikeshev in 2008, 2009 passed a two-month, and in 2011-2012 – a one-year scientific internship in molecular biology in the laboratory of DNA repair of the Gustave Rozzi Institute (Villejuif, France) and has experience teaching at this Institute.

R.S. Aidarkulova attended a training course of English at language center “English made simple” (Malaysia, 2016); N.A. Akhmetbekov – international training on “Management in Education” in the framework of the “Bolashak” program (Germany, Berlin Technical University, 2016); A.I. Gazizova – scientific training at the University of Life Sciences (Poland, Warsaw, 2013); G. S. Aidarkhanova – scientific training at the Warsaw Agricultural University (Warsaw University of Life Science) (Poland, 2014-2015), research internship in the Czech Agro-Technical University (Czech University of Life Sciences Prague) (Czech Republic, 2016-2017); S.A. Ashimov – education in Xinjiang Agricultural University (China, Urumqi, 2008), Omsk Medical Academy (Russia, Omsk, 2008); A.K. Dzhaksylykova – internship at S. M. Kirov Forest Technical University. (Russia, Saint-Petersburg, 2014); scientific internship at the Albrecht von Haller Institute for Plant Sciences of the Georg August University of Göttingen (Germany, Göttingen, 2018).

In 2019, 4 teachers of the Department were trained in advanced training courses and internships in foreign universities: N.B. Akhmetzhanova and A.I. Gazizova - ATC under the program "Animal Morphology" at the Omsk State Agrarian University named after P. A. Stolypin (Russia, Omsk); G.S. Aidarkhanova and Sh.M. Zhumadina - internship under the program “Food Safety: legislation, control, standards” at the National University of Life and Environmental Sciences (Ukraine, Kiev).

All ATS of the Department of Biological Sciences, accredited implementing the BP, systematically increasing skills through training courses, through participation in national and international field, as well as University scientific-methodical activities. One of the important areas of professional development is the introduction of modern educational technologies, including information and communication technologies, into the educational process of the University. For example, Professor, dr.b.sc. A.I. Gazizova trained under the program of the ATC “The Implementation of the main principles of the Bologna process and introduction of ECTS at universities of Kazakhstan” (RSE “National center of Evaluation of Education Quality” MES, 2010). Senior teacher N.S. Uspanova passed advanced training in a number of programs dedicated to improving the quality of education: “Features of the formation of modular educational programs” (Astana, 2015), “Modern methods as a tool for managing the quality of education” (Astana, 2016), “Innovative trends in education in effective teaching methods” (Astana, 2016), “Use of modern information technologies in the educational process” (Almaty, 2017). Associate Professor, dr.b.sc., Sh.M. Zhumadina trained at the international advanced training courses “Advanced technologies of school professional and higher education. Modeling of career guidance work. The experience of Germany and Switzerland” (Switzerland, 2018). and “Experience of innovative development of the Japanese education system in the era of globalization” at the University of Tsukuba (Japan, 2019). The work of the senior teacher, c.v.sc., L.M. Murzabekova was awarded a Diploma of the II degree of the Republican Competition “Innovative methods and technologies of training” (“ZIAT” Scientific and methodological center, 2015).

Scientific and educational activities of ATS of the Department were awarded with certificates, commendations, special grants and target financing of MES RK and the Ministry of Agriculture. Associate Professor, dr.b.sc., G.S. Aidarkhanova twice won a scholarship for young scientists of the Ministry of Science and the Academy of Sciences of the Republic of Kazakhstan (1996, 1998); awarded by the Soros-Kazakhstan Foundation for the development of a curriculum for Universities “Technology of soil bioremediation after environmental disasters. Theoretical

and practical aspects”; awarded a merit certificate of the Ministry of Agriculture of the Republic of Kazakhstan for contribution to the development of biological research (2008); Letter of appreciation MES RK (2013); Medal of the K. A. Timiryazev European scientific and industrial consortium (2015); Badge “Honored worker of science and education of Russia” (2015). Professor, dr.b.sc., A.I. Gazizova was awarded the Badge of the Ministry of Education and Science of the Republic of Kazakhstan “Honorary worker of education of the Republic of Kazakhstan” (2013). Associate Professor, dr.b.sc., Sh.M. Zhumadina was the holder of the grant “Best teacher of the University” MES RK (2007), awarded the Badge “Honorary worker of education of the Republic of Kazakhstan” for special merits in the field of education (2009), diplomas of the Committee for control in education and science MES of the RK (2010, 2011), honorary diploma of MES of the RK for the contribution to the social and spiritual development of Independent Kazakhstan (2016). Associate Professor, c.v.sc., S. A. Ashimov was awarded diplomas of MES RK (2004, 2011), Letter of appreciation of MES RK (2006); is the holder of state grant “The Best teacher of the University” (2008). Associate Professor, candidate of agricultural sciences A.K. Dzhaksylykova and senior lecturer A.S. Tojibaeva were awarded “With Gratitude for a huge contribution to the development of the education system of the Republic of Kazakhstan” MES RK (2017). Associate Professor, c.b.sc., Zh.K. Alzhapparova was awarded letters of appreciation of the MES RK(2014) and The“Textbook” Republican scientific and practical center of the MES RK (2015).

The management of the EP demonstrates responsibility for the development of human resources for the accredited EP. In oral conversation the Head of the Department B. M. Aikeshev reported that for high-quality staffing of educational disciplines “Genomics” and “Bioinformatics”, included in the curriculum of “6B05103 – Biology” EP on 3-4 courses, currently is working on training young teachers of the Department and also applied to the MES of the RK, experts in bioinformatics and genomics.

The management of the University demonstrates awareness of responsibility for its employees and ensuring favorable working conditions for them. The University has a system of rating evaluation of scientific, innovative, educational, methodical, educational activities of ATS, according to the results of which teachers receive incentive allowances to wages (“Regulation on the Establishment of Allowances for ATS” REAATS QMS 02.2052-2020). This was confirmed by the teachers during the meeting with them of the EEC members, held on 06.10.2020. A separate rating scale has been developed for young teachers. Teachers who participated in the meeting with EEC members on October 6, 2020, reported that in accordance with the order for the University, the planning of the academic load is carried out in a differentiated way – teachers who perform targeted research, as well as teachers who teach academic disciplines in English, the annual load is reduced from 730 to 536 hours.

The satisfaction of ATS with the implementation of the EP and the educational environment of the University, including working conditions, is assessed by regular anonymous questionnaires.

To ensure the practical orientation of the educational process, practitioners are involved in the teaching of disciplines. Within the framework of the accredited EP, practical teachers are PhD doctors, part-timers K.S. Izbastina and S.A. Kubentaev, whose main place of work is the Astana Botanical garden-a branch of RSE at BREM “Institute of botany and Phytointroduction of CFW MEGNR of the RK” . The head of the Department – B.M. Aikeshev, who in the period from 2006-2009 worked as the Director of the EO "Damu-Ulytau" (Zhezkazgan), in 2007-2009 he was the coordinator of the EO "Baikonur" (Zhezkazgan). Associate Professor, dr.b.sc., G.S. Aidarkhanova in 2003-2006 worked as senior researcher of the laboratory of nutrition physiology in SRI of human physiology and animals of MES RK in 2007-2008. – Deputy Director on scientific work of SRI of Soil Science and Agrochemistry MA RK. Senior lecturer, c.b.sc., R.S. Aidarkulova in 1997-1998 worked as a biology teacher in Kazakhstan village, Shardarinsky district, Turkestan region. Associate Professor, c.b.sc., Zh.K. Alzhapparova in



1996-1998, worked as a researcher at the Kazakh Research Institute of Agriculture named after V.R. Williams (Almaty).

Teachers of the Department participate in the activities of public, educational, scientific and industrial associations of the region. Head of the Department B. M. Aikeshev has been a member of the Association of public associations of Kazakhstan “EcoForum of Kazakhstan” since 2009. Associate Professor, c.v.sc., S.A. Ashimov conducts systematic consultations on the maintenance, feeding, prevention and treatment of cattle in the farms “Altyn Dan” of the Atbasar district, Akmola region, as well as in the farms of the Ayrtau district of the North Kazakhstan region to combat brucellosis and nodular dermatitis of cattle.

### ***Analytical part***

The materials presented by the EO and the EP management demonstrate that the University regulates the organizational and functional structure of personnel management and its development, including the recruitment system.

The ATS of the Department of Biological Sciences fully meets the qualification requirements, the specifics and development plan of the EP, the development strategy of the University.

The Department of Biological Sciences has the human potential to implement multilingual education and differentiated training of students with different language skills,

Teachers of the Department are involved in the international scientific and educational space, which can serve as a basis for the development of international cooperation of the Department in the future.

ATS implementing the accredited EP take an active part in the formation of the scientific, educational and socio-cultural environment of the region.

### ***Strengths/best practice***

1) the EO has an objective and transparent personnel policy, including in the context of the EP, including hiring, professional growth and development of personnel, ensuring the professional competence of the entire staff.

2) the EO demonstrates the motivation of professional and personal development of teachers of the EP, including encouragement for the integration of scientific activities and education, the use of innovative teaching methods.

3) practical teachers are involved in the implementation of the EP

### ***Weaknesses***

The management of the EP did not demonstrate readiness to organize internal and external academic mobility of ATS within the framework of the EP.

### ***EEC recommendations***

- To develop cooperation with leading foreign and Kazakh universities in order to harmonize the content and development of joint educational programs, conduct joint research, organize scientific internships and academic mobility of students and teachers of the University.

***The EEC conclusions about “6B05103-Biology” EP, by criteria according to the standard: strength – 3, satisfactory - 6, implies improvement -1.***

### ***Standard 6.8 “Educational resources and student support systems”***

#### ***Proof part***

At the disposal of the University and the Department there are specialized educational laboratories equipped in accordance with modern requirements, the research platform “Agricultural biotechnology” of S. Seifullin KATU, the laboratory of histology and genetics, the anatomical Museum, the herbarium fund, which allow not only laboratory and practical classes in specialized disciplines, but also conduct scientific research at the proper scientific and methodological level. The research platform “Agricultural biotechnology” and the laboratory of

histology and genetics are equipped with equipment similar to those in the relevant branches of science. For example, in the laboratory of histology and genetics, there is a complete system of devices, additional equipment and consumables (laminar box, centrifuge, rocking shaker, gel electrophoresis chambers, current sources, etc., which allows the preparation of tissue samples and allozyme analysis of samples by gel electrophoresis). All laboratories are equipped with fume hoods.

The anatomical Museum was established in 1997 by Professor, Doctor of biological Sciences, A. I. Gazizova. It currently contains more than 100 exhibits. On the basis of the Museum, training sessions are held not only for students of S. Seifullin KATU, but also for students of other Universities in Nur-Sultan, as well as training excursions for schoolchildren, biology teachers, students of advanced training courses, etc.

The herbarium Fund of the University has been formed since the 60s of the XX century on the basis of generally accepted international principles of plant systematics, and currently the scientific herbarium includes about 2000 species of flora of Kazakhstan. Since 2018, the herbarium has been undergoing revision in order to obtain an acronym - unique letter code for registration in the international database "The Index Herbariorum".

In the classrooms of the Department of Biological Sciences there are 23 computers and system units, 4 laptops, printers, multimedia projectors are available in all classrooms (Appendix 4 to the Self-assessment report of the EP).

The University established and functioning automated library-information system with access to remote resources full-text international databases (Scopus, Web of Science, SpringerOpen, IPR BOOKS, Wiley Open Access, Oxford University Press Open, Open Culture, Open SUNY Textbooks, ArXiv.org and many others), and Kazakh (KazNEL, RIEL), Russian (ELS "LAN Publishing house", RuNEL "elibrary") and University (ATS E-library) electronic bibliographic databases (<https://direkt-kaz.libguides.com/az.php>), as well as access to personalized interactive resources on the University website in the "Platonus" automated information system (<http://platonus.kazatu.kz/>).

In order to provide information support for the educational and research process, the University library offers the services of a faculty subject librarian, who not only helps in finding the necessary resources, but also conducts training seminars on the use of electronic bibliographic resources. In an oral conversation, Head of the Department of Biological Sciences – B. M. Aikeshev said that such training seminars are held at least once a quarter.

The quantity and quality of the library Fund allow providing modern educational literature in Russian, Kazakh and English to all students in accredited educational programs.

The Department staff actively publishes its own educational and methodological study guides in Russian, Kazakh and English.

According to the self-assessment report of the accredited EP (p. 95), the University has broadband Internet access: 150 Mbit / s (Contract No. 99 dated 14.03.2013), Wi-Fi is constantly functioning in all classrooms (p. 96). However, during a conversation with students living in the hostel, it turned out that they independently pay for the Internet, despite the fact that they are studying under state grants and are forced to distance learning.

In accordance with the "Regulation on the verification of written works for borrowing in "S. Seifullin KATU" JSC" (RVWWB QMS 02.2063-2019), the procedure for mandatory verification of course, graduation, research works of students for borrowing in the program "ANTIPLAGIAT.VUZ" was approved. The Head of the Department has access to the specified program at <https://kazatu-kz.antiplagiat.ru/report/short/1>.

Reports and conversations during meetings of EEC members with different groups of interested persons (6.10.2020 – 7.10.2020) reflect the existence and implementation of the University system and services of academic and social support for students, including individual support for students in the educational process and psychological counseling.

At a meeting with students of the faculty of agronomy (6.10.2020), which was attended by students studying in the "6B05103-Biology" EP, noted the clear work of advisors and

curators of student groups and at the same time a complete division of responsibilities between them.

The EP management notes compliance with safety requirements in the training process.

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

The University has developed a modern educational environment that includes a sufficient number of material, technical and information resources available for the implementation of the accredited EP and corresponding to the goals of the EP. The management of the University and the management of the EP provides a mechanism for evaluating and developing material and technical resources and information support through planned reports at meetings of various structural units, starting with the Department.

The material and technical base of the University meets the sanitary and technical requirements.

#### ***Strengths/best practice***

1) the EO demonstrates the sufficiency of material and technical resources and infrastructure, taking into account the needs of various groups of students in the context of EP.

2) the EP Management demonstrates the availability of support procedures for various groups of students, including information and consulting; technological support for students and ATS in accordance with educational programs.

#### ***Weaknesses***

The management of the EP did not demonstrate the adequacy of material and technical resources and infrastructure for students with health limitations.

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

- To develop organizational and pedagogical conditions of the educational environment for students with health limitations: to provide the material and technical base and to develop educational and methodological support for persons with disabilities.

- During the distance learning period, provide free access to educational Internet resources for students living in the hostel.

***The EEC conclusions about "6B05103-Biology" EP, by criteria according to the standard: satisfactory - 8.***

#### ***Standard 6.9 "Public awareness"***

#### ***Proof part***

The University demonstrates the existence of a developed information system that uses a variety of means and methods of disseminating information about the activities of the public organization as a whole and about individual EP. On the official website of the University (<https://kazatu.kz/ru/>) in three languages (Kazakh, Russian and English) presents a variety of close and comprehensive information about the University and about the EP, starting with the vision of the mission of the University in national and international scientific and educational space, the development strategy of the University, and ending with a full cycle implementation EP from the development EP and professional orientation of entrants to graduates. On the official website of the University there are services for online counseling of applicants ([http://portal.kazatu.kz/reg\\_abit/?language=ru](http://portal.kazatu.kz/reg_abit/?language=ru)), parents ([http://portal.kazatu.kz/reg\\_abit/?language=ru](http://portal.kazatu.kz/reg_abit/?language=ru)), for distance support of students (the tab "for Students" (<https://kazatu.kz/ru/education/studentam/>); "Student service Center" (<https://kazatu.kz/ru/coo/grafik-raboti-centra-obslyujvaniya-obuchayushchihsya/>); "Educational portal" (<http://portal.kazatu.kz/>); "Platonus", "Moodle", etc.), to provide consulting services and interact with practitioners (section "For Farmer" (<http://extension.kazatu.kz/>)).

Instagram, Facebook, WhatsApp, V Kontakte, Twitter, You Tube and other popular messengers are widely used by the University and the management of the EP to inform the public and various stakeholders' groups. The information posted on the site is structured and relevant in its content, published with a certain frequency. The press center of the University is

responsible for the process of informing the General public. The EO has its own TV Studio. Participants in the processes of collecting information and informing the public are all structural units of the University.

On the official website of the EO in the sections "MM about us" (<https://kazatu.kz/ru/ob-universitete/smi-o-nas/>), "Reviews of KATU" (<https://kazatu.kz/ru/review/>) published external reviews of the activities of the University as a whole and on individual EP. In 2020 alone, more than 50 external media publications about the University were presented. In the section "About us" tab, "Facts and figures" (<https://kazatu.kz/ru/ob-universitete/fakti-i-cifri/>) reflects the position of the University and a separate EP in a number of international and national rankings of universities (QS World University Rankings EECA, "Kazakhstan-2050 National Ranking on Innovation and Academic Excellence", "National Demand Rating of Universities of Kazakhstan").

In the section "About us", the "Financial statements" tab (<https://kazatu.kz/ru/ob-universitete/finansovaya-otchetnost/>) the separate and consolidated financial statements of the EO for 2012-2019 with the audit opinions of independent auditors are presented.

Extracurricular student life is covered in a periodical - the student newspaper "MeninUnivesitetim", which has been published since 1967.

The official website contains an electronic archive of numbers from 2011 to 2020. University scientific periodical "Bulletin of Science of S. Seifullin KATU", covering the main results of scientific research conducted by University teachers (<http://bulletinofscience.kazatu.kz/ru/>).

Each teacher, including the heads of the EO and EP, has a personal page on the University website, where professional achievements are described and contact details are indicated (for Example, the personal page of the head of the Department of biology B. M. Aikeshev is available at the link <https://kazatu.kz/ru/obrazovanie/fakulteti/kafedra-biologicheskikh-nauk/aykeshev-bulat-musulmanbekovich/>). Filling in and updating of personal information is carried out through the "Personnel" AIS, where, according to the EP managers, supporting materials are uploaded. Information on ATS is presented in equal volume in three languages (Kazakh, Russian, English). At the same time, the information about ATS of the Department of Biological Sciences is relevant for the 2019-2020 academic year (information on 19 teachers is provided) and does not reflect information about all teachers on the staff schedule of 2020-2021 (24 teachers).

In the context of "6B05103-Biology" EP on the website of the EO (<https://kazatu.kz/ru/belem/obrazovatel'naya-programma-biologiya/>) provides up-to-date information containing information about the relevance, uniqueness, goals and objectives of the EP, the field of professional activity of graduates, the competence model and qualifications of the graduate, the bases of practices and partner organizations.

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

The EEC confirms that the University has a system of timely informing the public and all interested parties about the various activities of the University, about the implemented projects, about cooperation and interaction with the University partners.

#### **Strengths/best practice**

1) The EO demonstrates the reflection on the web resource of information that characterizes it in General and in the context of educational programs.

2) The website of the EO contains up-to-date information about the EP, including the expected results of training; the qualification that will be awarded upon completion of the EP; information about passing points and educational opportunities provided to students; information about employment opportunities for graduates.

3) The EP Management provide for a variety of ways to disseminate information, including MM, information networks to inform the general public and interested parties.

#### ***Weaknesses***

They are not revealed.

### ***EEC recommendations***

Timely update information about the EP, including the ATS of the Department on the website of the University.

***The EEC conclusions about “6B05103-Biology” EP, by criteria according to the standard: strength – 6, satisfactory - 4.***

### ***Standard 6.10 “Standards in the context of individual specialties”***

#### ***Proof part***

In accordance with the classifier of areas of education and training with higher and postgraduate education of the Republic of Kazakhstan (Approved by the order of MES RK № 569 dated 13 October 2018) specialty “6B05103 – Biology” refers to “Biological and related Sciences” group.

The content of all disciplines of the accredited EP is based on and includes a clear relationship with the content of fundamental natural sciences, such as mathematics, physics, and chemistry. This is reflected in the curriculum and TMCD. The working curriculum of the modular educational program “6B05103-Biology” includes a number of disciplines that directly reflect these natural Sciences: 1) block of disciplines related to mathematics: higher mathematics, methods of mathematical modeling, Python language and data analysis, statistical analysis and data visualization; 2) block of disciplines related to physics: fundamentals of physics, Biophysics, radiobiology, fundamentals of thermodynamics and electromagnetism, physical and chemical research methods; 3) block of chemical disciplines: inorganic and organic chemistry, analytical and physcolloid chemistry. In addition, in the curriculum of “6B05103-Biology” EP there is a discipline “Bionformatics”, within which there is a relationship with mathematics in the study of individual issues.

The WC of the accredited EP contains the academic discipline “Information and communication technologies” (2-3 semesters), which forms one of the basic competencies of students. During the meeting of EEC members with students, students demonstrated literacy in the field of information and communication technologies, which is confirmed by the use of the electronic document management system (Platonus, Moodle, the automated system for checking written works “Unicab”) and video conferencing programs (Zoom) in the educational process of the University.

Among the ATS, implements EP, 7 teachers (29,1% ATS) has practical experience in enterprises according to the profile of the educational program (K.S. Izbastina, S.A. Kubantsev, B.M. Aikeshev, G.S. Aidarkhanova, R.S. Aidarkulova, J.K. Alzhapparova, S.A. Ashimov).

“6B05103 – Biology” EP includes disciplines and activities aimed at obtaining practical experience and skills in General and majors in particular disciplines, including visits to enterprises in the field of specialization.

Within the framework of the EP, 3 types of practices are provided: educational practice in the discipline “General biology of organisms” (2 credits, 6 semester); industrial practice (8 credits, 9 semester) and pre-graduate practice (4 credits, 12 semester).

Partner companies can act as bases of practices: “Astana Medical University” JSC, RSE “Republican collection of microorganisms”KN MES RK, “National center of biotechnology” SC of MES RK, Association for the Conservation of Biodiversity of Kazakhstan, Astana Botanical Garden, a branch of RSE on the BREM, “Institute of botany and Phytointroduction of CFW MEGNR of the RK”, “Buiratau” State National Natural Park (<https://kazatu.kz/ru/belem/obrazovatel'naya-programma-biologiya/>), as well as the research platform “Agricultural biotechnology”, the laboratory of histology and genetics of S.Seifullin KATU.

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

The EP management demonstrated the practical orientation of the educational program “B05103-Biology”, its meaningful connection with mathematics and natural Sciences

(chemistry, physics), and in General its compliance with the requirements of standards in the context of individual specialties,

***Strengths/best practice***

The staff of the Department includes 2 practical teachers, whose main place of work is an enterprise in the field of specialization of the accredited EP, as well as 5 full-time teachers with experience in enterprises in the profile of EP.

***Weaknesses***

They are not revealed.

***The EEC conclusions about “6B05103-Biology” EP, by criteria according to the standard:satisfactory - 5.***



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

### **Standard “Management of Educational program”:**

- manual EP demonstrates a willingness to ensure the transparency of the development plan of EP based on the analysis of its functioning, the actual positioning of EO and focus its activities to meet the needs of the state, employers, students and other stakeholders;
- The EO demonstrates a clear definition of those responsible for business processes within the framework of the EP, an unambiguous distribution of job responsibilities of personnel, and the differentiation of functions of collegial bodies;
- the management of the EP demonstrates evidence of readiness for openness and accessibility for students, ATS, employers and other interested parties.
- the management of the EP is trained in educational management programs.

### **Standard “Management of information and Reporting”:**

- the EO demonstrates the existence of a system for collecting, analyzing and managing information based on the use of modern information and communication technologies and software tools and uses a variety of methods for collecting and analyzing information in the context of the EP;
- EO is set to frequency, forms and methods of the assessment of the management, activities of collegial bodies and structural units, senior management, research projects;
- the management of the EP demonstrates the existence of a mechanism for communication with students, employees and other stakeholders, as well as mechanisms for conflict resolution;
- The EO confirms the implementation of procedures for processing personal data of students, employees and ATS on the basis of their documentary consent.

### **Standard “Educational program development and approval”:**

- EO defined and documented procedures for the development of EP and their approval at the institutional level;
- the qualification assigned upon completion of the EP is clearly defined and corresponds to a certain level of the NQS;
- the labor intensity of EP is clearly defined in Kazakhstan credits and ECTS.

### **Standard “Continuous monitoring and periodic evaluation of educational programs”:**

In EO, a system of monitoring and periodic evaluation of the EP, including: changing societal needs and professional environment; expectations, needs and satisfaction of students learning via the EP; educational environment and support services and their compliance with the objectives of the EP.

### **Standard “Student-centered Learning, Teaching and performance assessment”:**

- the management of the EP demonstrates respect and attention to the various groups of students and their needs, provides the possibility of flexible learning paths; demonstrates the existence of mechanisms to support the autonomy of students with simultaneous guidance and assistance from the teacher.

### **Standard “Students”:**

- the EO demonstrates the existence of a policy of forming a contingent of students in the context of the EP from admission to graduation and ensuring transparency of its procedures. The procedures governing the life cycle of students (from admission to completion) are clearly defined, approved, and published.
- the management of the EP determines the order of formation of the contingent of students, based on: minimum requirements for applicants; the maximum size of the group when conducting seminars, practical, laboratory and Studio classes; analysis of available material and technical, information resources, human resources; analysis of potential social conditions for students, including the provision of places in the hostel.

- the management of the EP demonstrates its readiness to conduct special adaptation and support programs for newly enrolled and foreign students;
- EO provides the opportunity to provide graduates with EP documents confirming obtained qualifications, including achieved learning outcomes and the context, content and status of education and evidence of its completion.

**Standard “Educational resources and student support systems”:**

- The EO demonstrates the sufficiency of material and technical resources and infrastructure, taking into account the needs of various groups of students in the context of EP.
- the EP management demonstrates the availability of support procedures for various groups of students, including information and consulting; technological support for students and ATS in accordance with the accredited educational program.

**Standard “Public awareness”:**

- The public organization demonstrates the reflection on the web resource of information that characterizes it in General and in the context of the educational program;
- relevant information about the EP is published on the EO's website, including expected learning outcomes; qualifications to be awarded upon completion of the EP; information about passing points and educational opportunities provided to students; information about employment opportunities for graduates;
- the management of the EP provides for a variety of ways to disseminate information, including the media, information networks to inform the General public and interested persons.

**Standard “Standards in the context of individual specialties”:**

- the staff of the Department includes 2 practical teachers, whose main place of work is an enterprise in the field of specialization of the accredited EP, as well as 5 full-time teachers with experience in enterprises in the profile of EP.



## **(VIII) OVERVIEW OF QUALITY IMPROVEMENT RECOMMENDATIONS**

### **Standard “Management of Educational program”**

To develop, publish and implement the activities in EO a single document, defining the policy of ensuring the quality of the EP, including the mechanisms of internal and external control, quantitative criteria for the evaluation and development of quality EP.

Increase the quantitative and regional representation of employers involved in decision-making on the management of the EP at all stages of its implementation, starting with the professional orientation of applicants, ending with the employment of graduates.

### **Standard “Management of information and Reporting”**

To develop and include in the system of collecting and analyzing information on EP clear quantitative indicators for determining the effectiveness of student assessment procedures.

### **Standard “Educational program development and approval”**

To develop and include in the development plan of the EP measures to prepare students for the professional certification procedure.

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

Pays more attention to the development of evaluation materials using a variety of methods for evaluating learning outcomes.

The TMCD should include detailed criteria and methods for evaluating students' academic achievements.

### **Standard “Student-centered Learning, Teaching and performance assessment”**

To organize professional development of the entire academic teaching staff implementing the EP in the areas of "Modern educational technologies" / "Modern teaching methods", "Modern methods (means) of evaluating learning outcomes", etc.

Organize research work of teachers of the Department in the field of teaching methods of academic disciplines.

### **Standard “Students”**

Develop opportunities for external and internal mobility of EP students.

### **Standard “ATS”**

To develop cooperation with leading foreign and Kazakh universities in order to harmonize the content and development of joint educational programs, conduct joint research, organize scientific internships and academic mobility of students and teachers of the University.

### **Standard “Educational resources and student support systems”**

To develop organizational and pedagogical conditions of the educational environment for students with disabilities: to provide the material and technical base and to develop educational and methodological support for persons with disabilities.

During the distance learning period, provide free access to educational Internet resources for students living in the hostel.

### **Standard “Public awareness”**

Timely update information about the EP, including the ATS of the Department on the website of the University.

### **Standard “Standards in the context of individual specialties”**

No.

**Appendix 1. Evaluation table “PARAMETERS OF A PRIMARY SPECIALIZED PROFILE”**

№ п\п	№ п\п	Assessment criteria	Position of educational organization			
			Strong	Satisfactory	Implies improvement	Unsatisfactory
<b>Standard “Management of Educational program”</b>						
1	1.	The organization of higher and / or postgraduate education should have a published quality assurance policy. Quality assurance policies should reflect the relationship between research, teaching and learning.			+	
2	2.	The organization of higher and (or) postgraduate education should demonstrate the development of a culture of quality assurance, including in the context of EP.		+		
3	3.	Commitment to quality assurance should apply to any activity performed by contractors and partners (outsourcing), including the implementation of joint / double-degree education and academic mobility.		+		
4	4.	The EP’s management demonstrates its readiness to ensure transparency in the development of the EP development plan based on an analysis of its functioning, the real positioning of the EO and the focus of its activities on meeting the needs of the state, employers, students and other stakeholders. The plan should contain the terms of the beginning of the implementation of the educational program.		+		
5	5.	The EP’s management demonstrates the existence of mechanisms for forming and regularly reviewing the EP development plan and monitoring its implementation, evaluating the achievement of training goals, meeting the needs of students, employers and society, and making decisions aimed at continuous improvement of the EP.		+		
6	6.	The management of the EP should involve representatives of groups of interested persons, including employers, students and ATS in the formation of the EP development plan.		+		

7	7.	The EP's management should demonstrate the individuality and uniqueness of the EP development plan, its consistency with national priorities and the development strategy of the organization of higher and (or) postgraduate education.		+			
8	8.	The organization of higher and (or) postgraduate education should demonstrate a clear definition of those responsible for business processes within the framework of the EP, an unambiguous distribution of job responsibilities of personnel, and the differentiation of functions of collegial bodies.		+			
9	9.	The EP's management must provide evidence of the transparency of the educational program management system.		+			
10	10.	The EP's management must demonstrate the existence of an internal quality assurance system for the EP, including its design, management and monitoring, their improvement, and fact-based decision-making.		+			
11	11.	The EP's management should carry out risk management, including within the framework of the EP undergoing primary accreditation, as well as demonstrate a system of measures aimed at reducing the degree of risk.		+			
12	12.	The EP's management should ensure the participation of representatives of employers, ATS, students and other interested persons in the composition of the collegial management bodies of the educational program, as well as their representativeness in making decisions on the management of the educational program.		+			
13	13.	The EO should demonstrate innovation management within the framework of the EP, including the analysis and implementation of innovative proposals.		+			
14	14.	The EP's management should demonstrate evidence of readiness for openness and accessibility for students, ATS, employers and other interested parties.		+			
15	15.	The EP's management should be trained in educational management programs.		+			
<b>Total by standard</b>			<b>3</b>	<b>11</b>	<b>1</b>	<b>0</b>	
<b>Standard "Management of information and Reporting"</b>							
16	1.	The EO should demonstrate the existence of a system for collecting, analyzing and managing information based on the use of modern information and communication technologies and software tools, and that it uses a variety of methods for collecting and analyzing information in the context of EP.		+			

17	2.	The EP's management should demonstrate the existence of a mechanism for the systematic use of processed, adequate information to improve the internal quality assurance system.		+		
18	3.	The EP's management should demonstrate fact-based decision-making.		+		
19	4.	The system of regular reporting should be provided within the framework of the EP, reflecting all levels of the structure, including the assessment of the effectiveness and efficiency of the activities of departments and departments, scientific research.		+		
20	5.	The EO should set 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.	+			
21	6.	The EO should demonstrate the definition of the procedure and ensuring the protection of information, including the identification of responsible persons for the accuracy and timeliness of information analysis and data provision.		+		
22	7.	An important factor is the availability of mechanisms for involving students, employees and ATS in the processes of collecting and analyzing information, as well as making decisions based on them.		+		
23	8.	The EP's management should demonstrate that there is a mechanism for communication with students, employees and other stakeholders, as well as mechanisms for conflict resolution.	+			
24	9.	The EO should demonstrate that there are mechanisms in place to measure the degree of satisfaction with the needs of ATS, personnel and students within the framework of the EP..		+		
25	10.	The EO should provide for an assessment of the effectiveness and efficiency of activities, including in the context of the EP		+		
		Information intended for collection and analysis within the framework of the EP should take into account:				
26	11.	keyperformanceindicators;			+	
27	12.	dynamics of the contingent of students in the context of forms and types;		+		
28	13.	academic performance, student achievement, and deduction;		+		

29	14.	satisfaction of students with the implementation of the EP and the quality of education at the University;		+		
30	15.	availability of educational resources and support systems for students.		+		
31	16.	The EO must confirm the implementation of the procedures for processing personal data of students, employees and ATS on the basis of their documentary consent.	+			
<b>Total by standard</b>			<b>4</b>	<b>11</b>	<b>1</b>	<b>0</b>
<b>Standard “Educational program development and approval”</b>						
32	1.	The EO should define and document procedures for the development of EP and their approval at the institutional level.	+			
33	2.	The EP’s management should ensure that the developed EP meets the established goals, including the expected learning outcomes.		+		
34	3.	The management of the EP should ensure that there are developed models of the EP graduate describing the learning outcomes and personal qualities.		+		
35	4.	The management of the EP must demonstrate the conduct of external examinations of the content of the EP and the planned results of its implementation.		+		
36	5.	The qualification awarded upon completion of the EP must be clearly defined and correspond to a certain level of the NQS.	+			
37	6.	The management of the EP should determine the impact of disciplines and professional practices on the formation of learning outcomes.		+		
38	7.	An important factor is the possibility of training students for professional certification.			+	
30	8.	The EP's management should provide evidence of the participation of students, ATS and other stakeholders in the development of the EP, ensuring their qualities.		+		
40	9.	The complexity of the EP should be clearly defined in Kazakhstan credits and ECTS.	+			
41	10.	The EP's management should ensure that the content of academic disciplines and planned results correspond to the level of training (bachelor's, master's, doctoral degrees).		+		
42	11.	The structure of the EP should provide for various types of activities that ensure that students achieve the planned learning outcomes.		+		
43	12.	An important factor is the correspondence of the content of the EP and the results of the training of the EP implemented by organizations of higher and (or) postgraduate education in the EHEA.		+		
<b>Total by standard</b>			<b>3</b>	<b>8</b>	<b>1</b>	<b>0</b>
<b>Standard “Continuous monitoring and periodic evaluation of educational programs”</b>						

44	1.	The EO should define mechanisms for monitoring and periodic evaluation of the EP in order to ensure that the goal is achieved and meet the needs of students and society. The results of these processes should be aimed at continuous improvement of the EP.		+		
		Monitoring and periodic evaluation of the EP should include: the				
45	2.	content of programs in the light of the latest scientific achievements in a particular discipline to ensure the relevance of the discipline taught;		+		
46	3.	changes in the needs of society and the professional environment;		+		
47	4.	workload and academic performance of students;		+		
48	5.	effectiveness of student assessment procedures;			+	
49	6.	expectations, needs and satisfaction of students with training in EP;		+		
50	7.	educational environment and support services and their compliance with the goals of the EP.		+		
51	8.	The EO, the EP's management should define a mechanism for informing all stakeholders of any planned or undertaken actions in relation to the EP		+		
52	9.	All changes made to the EP must be published. The EP's management should develop a mechanism for reviewing the content and EP's structure, taking into account changes in the labor market, the requirements of employers and the social demand of society.		+		
<b>Total by standard</b>			<b>0</b>	<b>8</b>	<b>1</b>	<b>0</b>
<b>Standard "Student-centered Learning, Teaching and performance assessment":</b>						
53	1.	The management of the EP should ensure respect and attention to different groups of students and their needs, and provide them with flexible learning paths.		+		
54	2.	The management of the EP should provide for the use of various forms and methods of teaching and learning.		+		
55	3.	An important factor is the availability of own research in the field of teaching methods of educational disciplines of the EP.		+		
56	4.	The management of the EP should demonstrate the existence of feedback mechanisms for the use of various teaching methods and evaluation of learning outcomes.			+	
57	5.	The management of the EP should demonstrate the existence of mechanisms to support the autonomy of students with simultaneous guidance and assistance from the teacher.		+		
58	6.	The management of the EP must demonstrate that there is a procedure for responding to complaints from students.		+		
59	7.	The EO should ensure consistency, transparency and objectivity of the learning outcomes assessment mechanism for each EP, including the appeal.		+		

60	8.	The EO should ensure that the procedures for evaluating the learning outcomes of EP students are consistent with the planned results and objectives of the program. Criteria and methods of evaluation within the framework of the EP should be published in advance.		+		
61	9.	In the EO, mechanisms should be defined to ensure that each EP graduate achieves learning outcomes and ensures the completeness of their formation.		+		
62	10.	Evaluators should be familiar with modern methods of evaluating learning outcomes and regularly improve their skills in this area.		+		
<b>Total by standard</b>			<b>1</b>	<b>8</b>	<b>1</b>	<b>0</b>
<b>Standard "Students"</b>						
63	1.	The EO should demonstrate the existence of a policy for the formation of a 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) should be defined, approved, and published.		+		
		The management of the EP should determine the order of formation of the contingent of students based on:				
64	2.	Minimum requirements for applicants;		+		
65	3.	maximum size of the group during seminars, practical, laboratory and Studio classes;		+		
66	4.	forecasting the number of state grants;		+		
67	5.	analysis of available material and technical, information resources, human resources;		+		
68	6.	analysis of potential social conditions for students, including the provision of places in the hostel.		+		
69	7.	The management of the EP should demonstrate its readiness to conduct special adaptation and support programs for newly enrolled and foreign students.		+		
70	8.	The EO must demonstrate that its actions comply with the Lisbon Recognition Convention.		+		
71	9.	The EO should cooperate with other educational organizations and national centers of the "European network of national information centers for academic recognition and mobility/National Academic Recognition Information Centers" ENIC/NARIC to ensure comparable recognition of qualifications.		+		
72	10.	The management of the EP should demonstrate the existence of a mechanism for recognizing the results of academic mobility of students, as well as the results of additional, formal and non-formal training.		+		
73	11.	The EO should provide opportunities for external and internal mobility of EP students, as well as readiness to assist them in obtaining external grants for training.		+		
74	12.	The management of the EP should demonstrate its readiness to provide students with places of practice, promote employment of graduates, and maintain		+		

		communication with them.				
75	13.	EO needs to be able to provide graduates with EP documents confirming obtained qualifications, including achieved learning outcomes and the context, content and status of education and evidence of its completion.	+			
76	14.	An important factor is the availability of mechanisms for monitoring the employment and professional activities of graduates of the EP.		+		
<b>Total by standard</b>			<b>8</b>	<b>6</b>	<b>0</b>	<b>0</b>
<b>Standard “ATS”</b>						
77	1.	The EO should have an objective and transparent personnel policy, including in the context of the EP, including recruitment, professional growth and development of personnel, ensuring the professional competence of the entire staff.	+			
78	2.	The EO must demonstrate that the human resources potential of the ATS corresponds to the development strategy of the EO and the specifics of the EP.		+		
79	3.	The management of the EP must demonstrate an awareness of responsibility for its employees and provide them with a favorable working environment.		+		
80	4.	The management of the EP should demonstrate a change in the role of the teacher in connection with the transition to student-centered learning.		+		
81	5.	The EO should determine the contribution of the ATS of the EP to the implementation of the development strategy of the EO, and other strategic documents.		+		
82	6.	The EO should provide opportunities for career growth and professional development of the ATS of the EP.		+		
83	7.	The management of the EP should demonstrate a willingness to involve practitioners of the relevant industries in teaching.		+		
84	8.	The EO should demonstrate motivation for the professional and personal development of teachers of the EP, including encouragement for the integration of scientific activities and education, the use of innovative teaching methods.	+			
85	9.	An important factor is the readiness to develop academic mobility within the framework of the EP, to attract the best foreign and domestic teachers.			+	
<b>Total by standard</b>			<b>2</b>	<b>6</b>	<b>1</b>	<b>0</b>
<b>Standard “Educational resources and student support systems”</b>						
86	1.	The EO should ensure that there are sufficient training resources and student support services that meet the objectives of the EP.		+		
87	2.	The EO must demonstrate the adequacy of material and technical resources and infrastructure, taking into		+		



		account the needs of different groups of students in the context of EP (adults, working, foreign students, as well as students with disabilities).				
		The EP's management should demonstrate that there are procedures in place to support different groups of students, including information and counseling. The management of the EP must demonstrate compliance of information resources with the specifics of the EP, including:				
88	3.	technological support for students and ATS in accordance with educational programs (for example, online training, modeling, databases, data analysis programs);		+		
89	4.	library resources, including the collection of educational, methodological and scientific literature on general education, basic and profile disciplines on paper and electronic media, periodicals, access to scientific databases;		+		
90	5.	examination of SRW, graduation papers, dissertations for plagiarism;		+		
91	6.	access to educational online resources;		+		
92	7.	functioning of WI-FI on the territory of the educational organization.		+		
93	8.	The EO should strive to ensure that the training equipment and software intended for use in the development of educational programs are similar to those used in the relevant industries.		+		
<b>Total by standard</b>			<b>0</b>	<b>8</b>	<b>0</b>	<b>0</b>
<b>Standard "Public awareness"</b>						
		The EO must publish reliable, objective, up-to-date information about the educational program and its specifics, which should include:				
94	1.	expected learning outcomes of the educational program being implemented;	+			
95	2.	qualifications and / or qualifications that will be awarded upon completion of the educational program;	+			
96	3.	teaching and learning approaches, as well as the system (procedures, methods and forms) of assessment;		+		
97	4.	information about passing points and educational opportunities provided to students;	+			
98	5.	information about employment opportunities for graduates.	+			
99	6.	The management of the EP should provide for a variety of ways to disseminate information, including the media, information networks to inform the General public and interested persons.	+			

100	7.	Public awareness should include support and clarification of the national development programs of the country and the system of higher and postgraduate education.		+		
101	8.	The EO should demonstrate the reflection on the web resource of information that characterizes it in general and in the context of educational programs.		+		
102	9.	An important factor is the availability of adequate and objective information about the ATS of the EP.		+		
103	10.	An important factor is to inform the public about cooperation and interaction with partners within the framework of the EP.		+		
<b>Total by standard</b>			<b>6</b>	<b>4</b>	<b>0</b>	<b>0</b>
<b>Standard “Standards in the context of individual specialties”</b>						
<b>EDUCATION</b>						
		The educational program of the direction “Education” must meet the following requirements:				
104	1.	The EP manual should include the mechanisms of formation of the graduates of the programme learning outcomes in the field of psychology and skills in communications, analysis of behavior, methods of prevention and resolution of conflicts, the motivation of students.				
105	2.	The EP 's management should demonstrate the presence of disciplines in the program that teach innovative teaching methods and training planning, including interactive teaching methods, teaching methods with high involvement and motivation of students (games, case studies/situations, use of multimedia tools).				
106	3.	Within the framework of the EP, emphasis should be placed on various types of practices: -attending lectures and other classes in classes conducted by teachers; -conducting special seminars and discussions on methodologies and the latest training technologies; -the opportunity for students to attend at least one discipline in the field of their specialization, taught by a practicing specialist.				
107	4.	The content of the EP should provide for the development of students of the world systems of knowledge, skills and methods of pedagogy, as well as knowledge in the field of education management.				
<b>Total by standard</b>						
<b>SOCIAL SCIENCES, ECONOMICS AND BUSINESS, SERVICES, HUMAN SCIENCES AND LAW</b>						
		The educational program of the directions “Social				

		Sciences”, Economics and business”, “Services”, “Humanities” and “Law” must meet the following requirements:				
108	1.	The EP’s management should provide that teaching within the framework of the program is carried out on the basis of modern achievements of world science and practice in the field of specialization, as well as using modern and advanced teaching methods.				
109	2.	The EP’s management should provide for the possibility of students' access to present-day and updated data (statistics, news, scientific results) in the field of specialization on paper (Newspapers, collections of statistical data, textbooks) and electronic media.				
110	3.	The goals and results of training should be aimed at obtaining specific skills that are in demand in the labor market.				
111	4.	The EP should include a sufficient number of disciplines and activities aimed at obtaining practical experience in the application of theoretical knowledge, such as industrial practice, - training at enterprises, participation in lectures and seminars of practitioners, etc.				
<b>Total by standard</b>						
<b>NATURAL SCIENCES, AGRICULTURAL SCIENCE, ENGINEERING, AND TECHNOLOGY</b>						
		The educational program of the directions "Natural Sciences", " Technical Sciences and technologies " must meet the following requirements:				
112	1.	EP should include disciplines and activities aimed at obtaining practical experience and skills in general and majors in particular disciplines, including: - excursions to the enterprises for specialization (plants, shops, research institutions, laboratories, educational-experimental farms, etc.) - conduct individual sessions or entire disciplines in the enterprise specialization; - conducting seminars to solve practical problems relevant to enterprises in the field of specialization, etc.		+		
113	2.	The ATS involved in the education program should include, as full-time teachers, practitioners who have long-term experience as a full-time employee at enterprises in the field of specialization of the education program.		+		
114	3.	The content of all EP disciplines should be based on and include a clear relationship with the content of fundamental natural Sciences.		+		
115	4.	The EP’s management should provide for measures to strengthen practical training in the field of specialization.		+		
116	5.	The EP’s management should provide training of students in the field of application of modern information technologies.		+		

			<b>Total by standard</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>
<b>ART</b>							
		The educational program of the "Art" directions must meet the following requirements:					
117	1.	The management of the EP should provide for the formation of graduates of the program of theoretical knowledge in the field of art and skills of self-expression through creativity, which are related to the competencies of the primary accredited EP.					
118	2.	The management of the EP should provide for the formation of students ' self-learning and self-development skills.					
119	3.	The EP must provide an opportunity to attend at least one discipline in the area of its specialization taught by a practitioner.					
120	4.	The EP should include as many disciplines and activities as possible that ensure that students develop creative skills individually or in small groups.					
121	5.	The management of the EP should provide, as much as possible, activities for students that promote the demonstration of students ' acquired creative skills.					
122	6.	Creative work, participation in concerts, competitions, performances, etc. within this direction is part of scientific activity.					
123	7.	The program of education should include disciplines and activities aimed at obtaining practical experience and skills in General and special disciplines in particular with the aim of familiarizing students with the professional environment, and current issues in the field of specialization and to the development of skills based on theoretical knowledge, including: -excursions to plants in the field (museums, theatres, design offices, etc.); -conduct individual sessions or entire disciplines in the enterprise specialization; -workshops to solve practical problems that are relevant for enterprises in the field of specialization, etc.					
124	8.	An important factor in EP is the availability of peer assessment of creative examination papers of students.					
<b>Total by standard</b>							
<b>TOTAL</b>			<b>27</b>	<b>75</b>	<b>6</b>	<b>0</b>	