



«АККРЕДИТЕУ ЖӘНЕ РЕЙТИНГТИҢ  
ТӘУЕЛСІЗ АГЕНТТІГІ» КЕМ

НУ «НЕЗАВИСИМОЕ АГЕНТСТВО  
АККРЕДИТАЦИИ И РЕЙТИНГА»

INDEPENDENT AGENCY FOR  
ACCREDITATION AND RATING

# REPORT

**on the results of the work of an external expert commission on assessment  
for compliance with specialized standards  
educational program accreditation**

**5B011200 / 6B01504 - Chemistry**

**6M060600 / 7M05301 - Chemistry**

**5B011300 / 6B01514 - Biology**

**6M011300 / 7M01504 - Biology**

**5B070100 / 6B05102 - Biotechnology**

**RSE at RV “Kokshetau State University named after S. Ualikhanova**

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

*Addressed to  
Accreditation  
IAAR Council*



Независимое агентство  
аккредитации и рейтинга

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**May 28-30, 2019**

**Kokshetau May 30, 2019**

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

ALIS - an automated library information system  
BD - basic disciplines  
University - higher education institution  
SCC - State Certification Commission  
SCES - State Compulsory Education Standard  
DLT - distance learning technology  
IC - individual curriculum  
FSC - final state certification  
CMEP - Catalog of a modular educational program  
CTT - credit training technology  
CED - Catalog of elective disciplines  
MES RK - Ministry of Education and Science of the Republic of Kazakhstan  
MEP - modular educational program  
RWU/ D - research work of undergraduate / doctoral student  
RW - research work  
GED - general education disciplines  
CD - compulsory disciplines  
EP - educational program  
SD - specialized disciplines  
Faculty - faculty  
WC - working curriculum  
QMS - Quality Management System  
IWS(IWU) - independent work of the student (independent work of the undergraduate)  
TC - Typical Curriculum  
EMW - educational-methodical work  
EMM - educational-methodical manual  
EMCS - educational-methodical complex of a specialty  
GPA (Grante Point Average) - average score  
ECTS - European credit transfer and accumulation system

## (II) INTRODUCTION

In accordance with the order No. 63-19-OD of 05/03/2019 2019 of the Independent Agency for Accreditation and Rating from May 28 to 30, 2019 at Kokshetau State University named after S. Ualikhanova (Kokshetau), an external expert commission assessed the compliance of the university with the requirements of the standards of specialized accreditation of the IAAR (dated February 24, 2017 No. 10-17-OD, fifth edition).

The report of the external expert commission (EEC) contains an assessment of compliance with the activities of Kokshetau State University named after Sh. Ualikhanova in the framework of specialized accreditation to the criteria of the IAAR, recommendations of the EEC for further improvement of the parameters of educational programs and profile parameters of educational programs.

### **The membership of the EEC:**

1. Chairman Yuri Pak, doctor of technical Sciences, Professor, head of the educational and methodical Association of universities of Kazakhstan, Karaganda state technical University (Karaganda),
2. Foreign expert Dimitar Grekov, Professor of the Agrarian University, member of the Accreditation Council of the National Agency for assessment and accreditation (Plovdiv, Bulgaria),
3. Expert Tatiana Shevyakova, doctor of Philology, Professor, Kazakh University of international relations and world languages. Abylai Khan (Almaty),
4. Expert Nurzhamal Denisovna Dzhardimalieva, candidate of medical Sciences, associate Professor, S. D. Asfendiyarov Kazakh national medical University (Almaty),
5. Expert Gulmira Karimova, PhD, Kazakh national pedagogical University named after Abai (Almaty)
6. Expert Mergul Sabitovna Kulakhmetova, candidate of philological Sciences, associate Professor (associate Professor), Pavlodar state Pedagogical University (Pavlodar)
7. Expert Nazimgizi Meruert, candidate of chemical Sciences, associate Professor, Kazakh national University. Al-Farabi (Almaty)
8. Expert Kamkin Viktor Aleksandrovich, candidate of biological Sciences, associate Professor (Associate Professor), Pavlodar state University. S. Toraigyrov (Pavlodar),
9. Expert Abishev Kairatolla Kairolinovich, candidate of technical Sciences, Professor, corresponding Member of National Academy of science of mechanical engineering and transport of the Republic of Kazakhstan, Pavlodar state University. Toraigyrov (Pavlodar),
10. Expert Aldabergenova Saule Salimzhanova, PhD, Kazakh Agrotechnical University named after S. Seifullin (Nur-Sultan),
11. Employer – Zhaksylykov Assen Bulatovic, Director of LLC "Gormolzavod" (Kokshetau)
12. Employer – Janseva Leila M., the expert of Department of development of human capital of the Regional chamber of entrepreneurs "Atameken" (Kokshetau),
13. Student Uzbekova Nuray Chalkarova, a member of the Alliance of students of Kazakhstan, 2nd year student OP "5B011900-Foreign language: two foreign languages" of Kokshetau University named after A. Myrzakhmetov (Kokshetau),
14. Student Zhusupov Chingis Kanatovich Executive Director of corporate Fund "Alliance of students of Kokshetau", 4th-year student of Kokshetau University named after A. Myrzakhmetov (Kokshetau),
15. Student - Alanis Aldanysh Zhymazhan Zhymabekyly, a member of the Alliance of students of Kazakhstan, 2nd year student EP "General medicine" Medical University of Astana (the city of Nur-Sultan),

16. Student -Azhibekova Rosa Askargy, a member of the Alliance of students of Kazakhstan, 3rd year student EP "Chemistry" of the Eurasian national University. L. N. Gumilyova (Nur-Sultan).

17. Observer – Shalabaeva Zhanzira Ismailbekovna, head of post accreditation monitoring Independent accreditation and rating agency ( Nur-Sultan)

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

Currently, the educational activities of Kokshetau State University on the basis of the updated license number 12019134 from 11.12.2012 city , issued by the Committee for Control of Education and Science, Ministry of Education and Science of Kazakhstan, to train specialists in 65 undergraduate majors, 30 master specialties, 6 majors in PhD doctoral studies. The university was created in 1996 by the merger of the Kokshetau Pedagogical Institute. C.Ch. Valikhanov, a branch of the Karaganda Polytechnic Institute and the Institute of Agriculture (order of the Ministry of Education and Science of the Republic of Kazakhstan dated May 23, 1996 No. 143) .

Kokshetau State University named after S. Ualikhanov is one of the leading regional universities in Northern Kazakhstan, leading for more than 50 years in the education system. The university covers the full educational cycle (undergraduate, graduate and doctoral PhD ). The university has 7 faculties: natural sciences; philology and pedagogy; Faculty of History, Law, Art and Sports; polytechnic; medicine; Faculty of correspondence education; Agrarian-Economic Institute. S. Sadvakasova ; multidisciplinary college.

At 25 departments, 527 teachers carry out training of specialists, including 410 full-time teachers, including 20 doctors of sciences, 92 candidates of sciences, 13 doctors of PhD, 214 masters. 32 teachers became holders of the grant "The best teacher of a higher education institution of the Republic of Kazakhstan".

The contingent of students, in the whole university, is 6,612 people, undergraduates - 277 people, doctoral students - 32 people.

The high level of training of specialists is confirmed by the leading positions in annual ratings. In the institutional ranking of universities - 2018 “Kazakhstan 2050 - National Rating on Innovation and Academic Excellence”, held by the National Academy of Sciences of the Higher School of Kazakhstan, the university ranks 12th among multidisciplinary universities of Kazakhstan. According to the results of the rating of educational programs OP 5V070100 - Biotechnology takes 4th place.

According to the results of the National Rating of Demand for Higher Education of the Republic of Kazakhstan - 2018, conducted by the Independent Agency for Accreditation and Rating, bachelor and master specialties took the leading positions (2nd place - 5B080100 - Agronomy, 6M080600 - Agricultural machinery and technology; 3rd place - 6M060600 - Chemistry). In the general ranking of the TOP-20 universities of the Republic of Kazakhstan, the university took 14th place.

According to the results of the rating of the National Chamber of Entrepreneurs “Atameken” 4, the educational program 5B080800 - Soil Science and Agricultural Chemistry takes 1st place.

The total area of the material and technical base of the university is 62,659.7 m<sup>2</sup> and meets regulatory requirements. The material and technical base of the university includes 5 educational buildings, 5 Internet cafes, 8 reading rooms, 3 museums, 29 computer classes, 28 multimedia classes, the House of Scientists, 2 Student Houses, 3 dormitories, a student nutrition center, a research and production complex "Elite" bath and laundry complex. In general, the university covers an area of 10.9689 ha.

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

In accordance with the order of the Independent Agency for Accreditation and Rating on November 25-29, 2013 at Kokshetau State University named after S. Ualikhanov by an external expert commission assessed the conformity of educational programs 5B011200 - Chemistry, 6M060600 - Chemistry, 5B011300 - Biology, 6M011300 - Biology, 5B070100 - Biotechnology, standards of specialized accreditation of the IAAR (dated April 26, 2012 No. 08-OD, edition second).

On February 21, 2014, by the decision of the Accreditation Council, educational programs were accredited for a period of 5 years.

**Composition of the previous Independent accreditation and rating agency:**

1. The Chairman of the Commission – Shunkeev Kuanyshebek Shunkeevich, Dr. Phys.-Math.Sci., Professor, and acting first Vice-rector of Aktobe state regional University. K. Zhubanov (Aktobe);
2. Foreign expert – Milen Ivanov Baltov, associate Professor, doctor, Vice-rector on educational work, Burgas Free University (Burgas, Bulgaria);
3. Foreign expert- Petr Hajek, PhD, Professor of the Central Bohemian University (Prague, Czech Republic);
4. Expert-Yuri Pak, doctor of technical Sciences, Professor, Karaganda state technical University (Karaganda);
5. Expert Stybaev Gani Zhasymbekovich, candidate of agricultural Sciences, associate Professor, head of the Department of agriculture and plant growing S. Seifullin Kazakh agro technical University. S. Seifullin (Astana);
6. Expert Asangaliev Elibek Atrauovich, academician MAIL, associate Professor K. S. H. N., head of Department of forest resources, woodworking technologies and processing industries of the East Kazakhstan state technical University. D. Serikbaev (Ust-Kamenogorsk);
7. Expert- Adilova Almagul Sovetovna, associate Professor, doctor of Philology, Karaganda state University named after Buketov (Karaganda);
8. Expert - Kurmanbaeva Meruert Sakenovna, doctor of biology, acting Professor of the Department of biology of the Kazakh state women's pedagogical University;
9. Expert Dabyltayeva Rayhan Esbergenovna, Ph. D., associate Professor, head of Department of foreign languages;
10. Observer Agencies – Nurakhmetova Aiman Bekbolatovna, Head of information-analytical project of the Agency (Astana);

**Based on the results of the EEC assessment, the following recommendations were made to the university on EP**

**According to the Standard "Management of the educational program"**

*In order to improve the management of educational programs, the commission recommends:*

- step up efforts to implement dual-degree and dual education

**According to the Standard "Specificity of the educational program"**

*In order to improve the specifics of educational programs, the commission recommends:*

- increase the number of specialized laboratories by specialty

**According to the Standard "Faculty and Teaching Effectiveness"**

*In order to improve the development of human resources and ensure the effectiveness of teaching, the commission recommends:*

- provide targeted action for the development of young teachers.

**According to the Standard "Learners"**

*In order to meet the needs of students, the commission recommends:*

- create an association of graduates of the faculty.

**According to the Standard "Resources Available to Educational Programs"**

*In order to improve the resource base of the specialty, the commission recommends:*

- to increase the number of specialty textbooks in the Kazakh language.

**Conclusions:** During the visit, the experts analyzed the recommendations made by the university. The report of the expert group on the assessment of the implementation of the recommendations of the

EEC IAAR, made according to the results of the specialized accreditation of the university, was also studied.

The expert group made sure that in general, the planned activities in accordance with the work plan for the implementation of the recommendations were completed: new specialized laboratories were opened, the number of textbooks in the Kazakh language increased. The recommendation to develop a double-degree education program has not been fully implemented and is in the process of implementation (the departments have provided agreements and memoranda of cooperation with partner universities).

The analysis showed that most of the recommendations were implemented. A recommendation for the implementation of double-degree education is being implemented.

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

The work of the EEC was carried out on the basis of the approved program of the visit of the expert commission on specialized accreditation of educational programs at Kokshetau State University named after S. Ualikhanov from March 28 to March 30, 2019.

In order to coordinate the work of the EEC, an assembly meeting was held on May 28, 2019, during which the powers were distributed among the members of the commission, the schedule of the visit was clarified, agreement was reached on the choice of examination methods.

In accordance with the requirements of the standards, the visit program covered meetings with vice-rectors, heads of structural divisions, deans, heads of university departments, teachers, students, graduates, employers and employees from structural divisions, interviewing and questioning of teachers and students. In total, 305 people took part in the meetings (table 1).

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

<b>Category of participants</b>	<b>amount</b>
RECTOR	one
Vice Rector	3
Heads of structural divisions	17
Deans	four
Department Heads	10
Teachers	71
Students, undergraduates	134
Graduates	32
Employers	37
<b>Total</b>	<b>305</b>

Visual inspection was carried out in order to obtain a general idea of the organization of educational, scientific and methodological processes, the material and technical base, determine its compliance with standards, as well as for contacts with students and employees at their workplaces. Experts examined the departments, faculties, structural units, libraries, sports facilities, medical center, etc.

In accordance with the accreditation procedure, a survey was conducted of 71 teachers, 116 students.

In order to confirm the information presented in the Self-Assessment Report by external experts, the university's working documentation was requested and analyzed. In particular, the University's Strategic Development Plan for 2017–2021, the University's work plan, department work plans, the catalog of elective disciplines, the Department Regulations, the RUE for Master and Bachelor programs, job descriptions, plans and protocols of the Academic Council, UMKD, etc.



Along with this, experts studied the Internet positioning of the university through the university's official website [www.kgu.kz](http://www.kgu.kz).

The members of the EEC visited the bases of practice of accredited programs: GNUPP Burabay, LLP Gormolzavod, KSU School-Gymnasium of Multilingual Education No. 3 named after M. Gabdullin, KSU "IT school-lyceum".

EEC members attended exams:

according to OP 6M060600 / 7M05301 - Chemistry :

- discipline "Selected chapters of analytical chemistry", 13.40 hours, (813 aud.), there were 3 undergraduates;

according to OP 6M011300 / 7M01504 - Biology :

- discipline " Biological bioparticles of Kazirgi mäseleri " , 13.40 h., (717 aud.), there were 6 undergraduates.

## ( VI ) COMPLIANCE WITH SPECIALIZED ACCREDITATION STANDARDS

### *6.1. Standard "Management of the educational program"*

#### *Evidence part*

Quality Policy KSU named after Ualikhanova is based on state requirements for the quality of education and the mission of the university and is aimed at ensuring a link between research, teaching and learning. This document was approved by order No. 493-A of 09.24.2018, published in the state and Russian languages by typography and posted on the university website ( <http://www.kgu.kz/politika-i-celi-rgp-na-phv-koksetauskii-gosudarstvennyi-universitet-im-s-ualihana-nova-v-oblasti> ).

The quality policy is reflected in the following documents: Strategic Plan of Kokshetau State University named after Sh. Ualikhanov for 2017-2021; Roadmap to improve the principles of academic integrity of KSU named after Sh. Ualikhanov for 2018-2020; Regulations on the code of honor of teachers and staff of KSU named after S. Ualikhanov ; The action plan for the entry / improvement of positions in international academic ratings for 2018-2021, etc.

The university management has a four-level structure: rector - vice-rectors - deans - heads of departments. In order to ensure effective management of the work of all departments of the university, an order is annually issued "On the distribution of functional responsibilities among university leaders." To date, the order issued December 8, 2017 (No. 98a-P) is valid.

To maintain a quality management system, KSU has developed 8 documented procedures, 17 university standards, 6 methodological instructions, 53 provisions on processes.

The tasks of the departments in the field of development and implementation of EP are determined by the Mission of the University. The tasks of the department in the field of implementation of EP are annually discussed and approved at a meeting of the departments with the involvement of employers and students, which is reflected in the minutes of the meetings of the departments: Department of chemistry and biotechnology:

In the discussion of the OP "5V070100 / 6M05102 - Biotechnology" along with the faculty of the department took part such stakeholders as:

in the 2014-2015 academic year (protocol No. 1 of 08/28/15) Pyatov EA - Vice President for Science of Kokshetauminvody JSC, Corresponding Member of the Academy of Mineral Resources of the Republic of Kazakhstan (Kokshetau), V. Yu. Kirillov - deputy Director General for Research, KazNII Forestry LLP (Shchuchinsk), D. Balpanov - President of the branch of the National Center for Biotechnology (Stepnogorsk), A. Zhaksylykov - Director of the Kokshetau Butter Plant (Kokshetau), 3 and 4 courses: Kapar Akzhol, Tezekbaev Aydar.

In the 2015-2016 academic year (protocol No. 1 dated 08/31/16) Pyatov EA - Vice President for Science of Kokshetauminvody JSC, Corresponding Member of the Academy of Mineral Resources of the Republic of Kazakhstan (Kokshetau), V. Yu. Kirillov - deputy Director General for Research,

KazNII Forestry LLP (Shchuchinsk), S.Yu. Maksimets - deputy Director for Innovation and Relations of Kokshetauminvody JSC, Kokshetau, 3rd and 4th year students: Nikonovich Irina, Borovikov Alena.

In the 2016-2017 academic year (protocol No. 1 dated 08/29/17) Pyatov E.A. Vice President for Science of Kokshetauminvody JSC, Corresponding Member of the Academy of Mineral Resources of the Republic of Kazakhstan (Kokshetau), G. Loskutova, Ph.D., Associate Professor, Department of Engineering and Technology, 3rd and 4th year students: Alena Borovikova, Topalova Tatyana

In the 2017-2018 academic year (protocol No. 1 dated 08/27/18) Pyatov E.A. Vice President for Science of Kokshetauminvody JSC, Corresponding Member of the Academy of Mineral Resources of the Republic of Kazakhstan (Kokshetau), G. Loskutova - Ph.D., Associate Professor, Department of Engineering and Technology, 3rd and 4th year students: Rustem Akbota, Lukina Maria.

In the discussion of the EP "5B011200 / 6M060600 / 6V01504 / 7M01504 - Chemistry", along with the teaching staff of the department, such stakeholders as :

in the 2014-2015 academic year (protocol No. 1 dated 08/28/15) S. Shakenova - head of the city methodological association of chemistry and biology teachers, teacher of the highest category, master teacher, trainer of secondary school No. 17, Adilbekova S.R. - a teacher of the highest category and a trainer of the Republican level on the updated content of secondary education, humanitarian and technical lyceum (Kokshetau), Otynsheeva LK - head of the methodical association of chemistry and biology of the Nazarbayev Intellectual School (Kokshetau), teacher of the highest category of Akmola Oblast specialized school №3 for gifted children "Daryn", master of chemistry D. Iskakova, head of the Department of Chemistry and Chemistry in Kokshetau, teacher of the highest category of secondary school No. 12 Shashkenova R.K., 3rd year students of the specialty Chemistry Yu. URSA Zhirnova Yu

in the 2015-2016 academic year (protocol No. 1 dated 08/31/16) employers: D. Iskakova - a teacher of the highest category of the regional specialized boarding school No. 3 for gifted children with the Kazakh language of instruction (Kokshetau), S. Shakenova - head of the city methodological association of chemistry and biology teachers, teacher of the highest category, master teacher, trainer School No. 17 , Director of secondary school No. 3 named after M. Gabdullin A. Baltashev 3-year students of the specialty Chemistry Baldillaeva A. and 4-year students Zhumatova Zh.

in the 2016-2017 academic year (protocol No. 1 dated 08/29/17) D. Iskakova - a teacher of the highest category of the regional specialized boarding school No. 3 for gifted children with the Kazakh language of instruction (Kokshetau), S. Shakenova - head of the city methodological association of chemistry and biology teachers, teacher of the highest category, master teacher, trainer School No. 17 , Adilbekova S.R. - teacher of the highest category and trainer of the Republican level on the updated content of secondary education, humanitarian and technical lyceum (Kokshetau), Shashkenova RK - teacher of the highest categories of school No. 12, Otynsheeva L.K. - head of the methodical association of chemistry and biology Nazarbayev Intellectual School (Kokshetau), 2nd year student of the specialty Chemistry Nuriddinova M., graduate of the specialty 5B011200-Chemistry Sabitov A.

in the 2017-2018 academic year (protocol No. 1 of 08/27/18) Iskakova D.M. - a teacher of the highest category of the regional specialized boarding school No. 3 for gifted children with the Kazakh language of instruction (Kokshetau), S. Shakenova - head of the city methodological association of chemistry and biology teachers, teacher of the highest category, master teacher, trainer School No. 17 , Adilbekova S.R. - teacher of the highest category and trainer of the Republican level on the updated content of secondary education, humanitarian and technical lyceum (Kokshetau), Shashkenova RK - teacher of the highest categories of school No. 12, Otynsheeva L.K. - head of the methodical association of chemistry and biology Nazarbayev Intellectual School (Kokshetau), 2nd year student Dosmaganbetova A.O. Graduate of the specialty 5B011200-Chemistry Sabitov A.

At the Department of Biology and Teaching Techniques, in discussion of the EP "5B011300 / 6M011300-Biology", along with the teaching staff of the department, such stakeholders as:

2014-2015 academic year (protocol No. 1 dated 09/01/2015) methodologist of the natural science cycle of the State Department "Education Department of Kokshetau" EA Kazhigaliev, biology teacher at KSU "Regional Specialized Boarding School No. 3 for gifted children (with Kazakh language of instruction), Kokshetau »Aubakirova KR, biology teacher at the Pedagogical College named after J. Musina, Kokshetau Sapabekova D.O. and 4-year students of the specialty Biology: Abdrakhmanova A.,

Asylbek T., Kusainova A., Ashova A., Əlibekova N., Əlip A., Bauyrzhan H., Daldieva P., Ermyrat J., Kuzmanova L., Muratkhana M., Muratbekova B., Nysanbaeva E., Ramazanova Sh., Rakhimbaeva A., Sartaeva S., Syzdykova N., Tagaeva J., Kabdulmazhitova A., Klyueva N., Lobanova Yu., Tokarchik N.;

2015-2016 academic year (Minutes No. 1 dated 08/31/2016), a methodologist of the natural science cycle at the Kokshetau Department of Education, EA Kazhigaliev, biology teacher at KSU Regional Specialized Boarding School No. 3 for Gifted Children (with the Kazakh language of instruction), Kokshetau "Aubakirova KR, biology teacher at KSU" Regional specialized boarding school No. 3 for gifted children (with the Kazakh language of instruction), Kokshetau "Zhumatay Zh.B. and 4 year graduates: Saraman G., Əuezbeckzyzy N., Kınash Sh., Ryspaeva A., Shakhtaeva A., Kapsalam Ə., Ualieva K., Kanafina A., Koyshygara J., A ,tay N., Iglıkova M., Abdenova A., Ayash B., Kabdylova A.;

2016-2017 academic year (protocol No. 1 dated 08/29/2017) Ermagambetova S.K. - Head of the Department of Natural Sciences, Sambaev RB - Biology teacher of secondary school No. 6, Kaldybaeva G.Sh, head of the GMO of biology teachers in Kokshetau, O. Ermolenko - deputy director for scientific work of secondary school No. 5 "Taydau", Noyan J. - undergraduate for 2 years of specialty 6M011300-Biology. And 4-year students: Azmagambetova D., Amankeldi A., Zhansybay M., Iskenderova F., Kenesova A., Sembayeva D., Ramazan A., Beknerbek M., Kuanysheva B., Zhakupova D., Alimov A., Balgabekova A., Vasilevich R., Kusbulganova R., Tleubergenova J., Nurgalieva E.;

2018-2019 academic year (protocol No. 1 dated 08/28/2018), biology teacher at KSU Ecological School-Gymnasium No. 13 "Ekos" - Koshanova A.B., 4th year students: Akbar A., Əbdez Y., Dosmukhanova Sh., Erkhanova S., Kabzhan D., Karabaeva D., Mash M., Saberbekova J., Negerbek A., Nurgalieva L., Baltabay K., Bekbulatova N.

In the discussion of EP 5B070100 / 6M05102 - Biotechnology, along with the faculty of the department, such stakeholders as:

2014-2015 Scholastic first year - employers: Pyatov EA - Vice President for Science of Kokshetauminvody JSC, Corresponding Member of the Academy of Mineral Resources of the Republic of Kazakhstan (Kokshetau), V. Yu. Kirillov - deputy Director General for Research, KazNII Forestry LLP (Shchuchinsk), D. Balpanov - President of the branch of the National Center for Biotechnology (Stepnogorsk), A. Zhaksylykov - Director of the Kokshetau Butter Plant (Kokshetau), 3 and 4 courses: Kapar Akzhol, Tezekbaev Aydar.

2015-2016 academic year - employers: Pyatov E.A. - Vice President for Science of Kokshetauminvody JSC, Corresponding Member of the Academy of Mineral Resources of the Republic of Kazakhstan (Kokshetau), V. Yu. Kirillov - deputy Director General for Research, KazNII Forestry LLP (Shchuchinsk), S.Yu. Maksimets - deputy Director for Innovation and Relations of Kokshetauminvody JSC, Kokshetau, 3rd and 4th year students: Nikonovich Irina, Borovikov Alena.

2016-2017 academic year - employers: Pyatov E.A. Vice President for Science of Kokshetauminvody JSC, Corresponding Member of the Academy of Mineral Resources of the Republic of Kazakhstan (Kokshetau), G. Loskutova, Ph.D., Associate Professor, Department of Engineering and Technology, 3rd and 4th year students: Alena Borovikova, Topalova Tatyana

2017-2018 academic year - employers: Pyatov E.A. Vice President for Science of Kokshetauminvody JSC, Corresponding Member of the Academy of Mineral Resources of the Republic of Kazakhstan (Kokshetau), G. Loskutova - Ph.D., Associate Professor, Department of Engineering and Technology, 3rd and 4th year students: Rustem Akbota, Lukina Maria.

In the discussion of EP 5B011200 / 6M060600 / 6V01504 / 7M01504 - Chemistry, along with the teaching staff of the department, such stakeholders as:

2014-2015 Scholastic first year - employers: Shakenova S.A.- head of city methodical unification of chemistry and biology teacher, teacher of the highest category, the teacher-master coach SSHN№17, Adilbekova SR - a teacher of the highest category and a trainer of the Republican level on the updated content of secondary education, humanitarian and technical lyceum (Kokshetau), Otynsheeva LK - head of the methodical association of chemistry and biology of the Nazarbayev Intellectual School (Kokshetau), teacher of the highest category of Akmola Oblast specialized school No. 3 for gifted children "Daryn", master of chemistry D. Iskakova, head of the Department of Chemistry in Kokshetau,

teacher of the highest category of secondary school No. 12 Shashkenova R.K., 3rd year students of the specialty Chemistry Yu. Bereznyak and 4 to PCA Zhirnova Yu

2015-2016 academic year - employers: Iskakova D.M. - a teacher of the highest category of the regional specialized boarding school No. 3 for gifted children with the Kazakh language of instruction (Kokshetau), S. Shakenova - head of the city methodological association of chemistry and biology teachers, teacher of the highest category, master teacher, trainer School No. 17 , Director of secondary school No. 3 named after M. Gabdullin A. Baltashev 3-year students of the specialty Chemistry Bald illaeva A. and 4-year students Zhumatova Zh.

2016-2017 Scholastic first year - employers: Iskakov D.M. - a teacher of the highest category of the regional specialized boarding school No. 3 for gifted children with the Kazakh language of instruction (Kokshetau), S. Shakenova - head of the city methodological association of chemistry and biology teachers, teacher of the highest category, master teacher, trainer School No. 17 , Adilbekova S.R. - teacher of the highest category and trainer of the Republican level on the updated content of secondary education, humanitarian and technical lyceum (Kokshetau), Shashkenova RK - teacher of the highest categories of school No. 12, Otynsheeva L.K. - head of the methodical association of chemistry and biology Nazarbayev Intellectual School (Kokshetau), 2nd year student of the specialty Chemistry Nuriddinova M., graduate of the specialty 5B011200-Chemistry Sabitov A.

2017-2018 Scholastic first year - employers: Iskakov DM - a teacher of the highest category of the regional specialized boarding school No. 3 for gifted children with the Kazakh language of instruction (Kokshetau), S. Shakenova - head of the city methodological association of chemistry and biology teachers, teacher of the highest category, master teacher, trainer School No. 17 , Adilbekova S.R. - teacher of the highest category and trainer of the Republican level on the updated content of secondary education, humanitarian and technical lyceum (Kokshetau), Shashkenova RK - teacher of the highest categories of school No. 12, Otynsheeva L.K. - head of the methodical association of chemistry and biology Nazarbayev Intellectual School (Kokshetau), 2nd year student Dosmaganbetova A.O. Graduate of the specialty 5B011200-Chemistry Sabitov A.

The implementation of the EP is analyzed at the end of each school year. Analysis of EP is recorded in the protocols. Department of Chemistry and Biotechnology: Protocol No. 09 of 04.29.15; Minutes No. 09 dated 04/30/16, Minutes No. 09 dated 04/28/17 Minutes No. 09 dated April 25, 18; No. 09 dated April 25, 19); at a meeting of the Department of Biology and MP, at the end of each academic year, the EP for the next academic year is analyzed (Minutes No. 9 of 05/31/2015, Minutes No. 8 of 04/15/2016, Minutes No. 9 of 04/18/2017; Minutes No. 10. dated 05/14/2018. D).

When planning and implementing the EP, the university takes into account the needs and wishes of such employers as the city education department of Kokshetau and the Department of Education of the Akmola region, the Ecology Department of the Akmola region, GNPP Burabay, GNPP Kokshetau, KSES MH RK, JSC Kokshetau Minvody”, Baltic Control Kazakhstan LLP, Gormolzavod LLP, Milk project LLP, Novopek LLP. At the suggestion of employers, after discussion at a meeting of the department, the following disciplines were introduced in accredited EPs (table 2)

Table 2 - The list of disciplines in the OP 5V011200 - “Chemistry”, 5B011300 - “Biology” and 5B070100 - “Biotechnology” proposed by employers over the past 5 years

Training period	Name of the discipline	Name of company	Full name, position of the head of the organization and full name of the teacher of chemistry
EP 5B011200 / 6B01504 - “Chemistry”			
2015-2019	Redox reactions	Secondary school No. 2, Kokshetau	Borgul V.M. - director of school №2
2015-2019	Complex compounds	School - Gymnasium Tandau	Fateeva N.P. - Chemistry teacher at the school - Tandau Gymnasium
2015-2019	Химиядан есептер шығару әдістемесі	Regional Sh cola boarding school for gifted children	Iskakova D.M. teacher of the highest category of the regional cola boarding school for gifted children

		"Daryn"	"Daryn"
2015-2019	Экспериментальды есептерді шығару әдістемесі	Regional Sh cola boarding school for gifted children "Daryn"	Iskakova D.M. teacher of the highest category of the regional cola boarding school for gifted children "Daryn"
2017-2021	Solving problems of increased complexity	Regional Sh cola boarding school for gifted children "Daryn"	Iskakova D.M. teacher of the highest category of the regional cola boarding school for gifted children "Daryn"
5B011300 / 6B01514 - "Biology"			
2018-2022	Gerontology/ Gerontology / Gerontology	KSU ecological school-gymnasium №13 "Ekos"	Akhmetzhanova Svetlana Beketovna - Head of KSU Ecological School-Gymnasium No. 13 "Ekos"; Koshanova A.B. - Biology teacher at KSU Ecological School-Gymnasium No. 13 "Ekos"
2017 - 2021	Biological terminology (in English )	GMO of biology teachers in Kokshetau	Head of the city methodological association biology teachers of the city of Kokshetau Kaldyrbaeva G.Sh.
2017 - 2021	Biology in English	GMO of biology teachers in Kokshetau	The head of the city methodological association of biology teachers of the city of Kokshetau Kaldyrbaeva G.Sh.
2017 - 2021	Methodology of Biology teaching (in English)	KSU "Regional boarding school No. 3 for gifted children (with the Kazakh language of instruction)" Kokshetau	Kalymova A.K. - Head of KSU "Regional boarding school No. 3 for gifted children (with the Kazakh language of instruction) of Kokshetau; Aubakirova K.R. - Biology teacher of KSU "Regional boarding school No. 3 for gifted children (with the Kazakh language of instruction)" Kokshetau
2016-2020	Indoor plants / House plants; Floriculture	KSU "Regional specialized boarding school No. 3 for gifted children (with the Kazakh language of instruction)" Kokshetau	Zhumatay Zh.B. - Biology teacher, KSU "Regional specialized boarding school No. 3 for gifted children (with the Kazakh language of instruction)" Kokshetau
2015-2019	Biological experiment at school	KSU "Regional boarding school No. 3 for gifted children (with the Kazakh language of instruction)" Kokshetau	Aubakirova K.R. - Biology teacher at KSU "Regional boarding school No. 3 for gifted children (with the Kazakh language of instruction)", Kokshetau
5B070100 / 6B05102 - "Biotechnology"			
2015-2019	Physical methods of chemical research	KazNII LH	Kirillov V.Yu., Deputy General Director
2015-2019	Fundamentals of Chemical Analysis	KazNII LH	Kirillov V.Yu., Deputy General Director
2015-	Enzyme production	NC, Stepnogorsk.	Balapanov D.S., Ph.D. branch



2019			president
2015-2019	Physiology of water	NC, Stepnogorsk.	Balapanov D.S., Ph.D. branch president
2017-2021	Technical Microbiology	JSC "Kokshetau Minvody"	Pyatov E.A. Vice President of Science
2017-2021	Food Biochemistry	Baltika LLP	Bondarenko L. Director
2017-2021	Food chemistry	Baltika LLP	Bondarenko L. Director

Representatives of employers are the chairmen of the State Joint-Stock Company and the State Economic Committee.

Accredited educational programs participated in the rating of educational programs of the National Chamber of Entrepreneurs of the Republic of Kazakhstan "Atameken", according to which in 2018 EP "Chemistry" took 4th place, EP "Biotechnology" 6th place and EP "Biology" - 8th place.

In February 2014, Kokshetau State University named after Sh. Ualikhanov and educational programs in the areas 5B011200 - Chemistry, 6M060600 - Chemistry, 5B011300 - Biology, 6M011300 - Biology, 5B010700 - Biotechnology, were accredited by the Independent Agency accreditation and rating of the Republic of Kazakhstan. Based on the results of accreditation, certificates were issued confirming the quality of the educational services provided for the period from February 21, 2014 to February 21, 2019.

In 2015, the educational programs 5B011200 - Chemistry, 6M060600 - Chemistry passed international accreditation at the ACQUIN Institute for Accreditation, Certification and Quality Assurance (Bagroit). Based on the results of accreditation, these educational programs received quality certificates for the period from July 3, 2017 to September 30, 2021.

For all accredited EPs, a common distinguishing feature is orientation to the specifics of the regional needs of the labor market, multilingualism of their implementation and a sufficiently high level of trilingualism of students and teaching staff, while each program has its own individual characteristics:

EP 5B011200 / 6B01504-Chemistry - the integrity of the educational and scientific process - performing research not only at the Department of Chemistry and Biotechnology, but also on the basis of practices.

EP 6M060600 / 7M05301-Chemistry - training in a multilingual environment of scientific and pedagogical personnel capable of synthesizing and studying the chemical processes of applied and fundamental chemistry, as well as meeting the requirements of the regional labor market.

EP 5B011300 / 6B01514-Biology - preparation of bachelors with linguistic competence in the international educational space and with the involvement of employers of priority importance for the development of the region.

EP 6M011300 / 7M01504-Biology - training of masters with linguistic competence in the international educational space and in the labor market.

The departments have agreements with partner universities (table 3)

Table 3 - Concluded agreements with foreign partner universities

The name of the university	Validity	Contract number
Department of Chemistry and Biotechnology		
University of Aquilla - Italy	5 years	2A from 03/30/2012
Omsk State University. F.M.Dostoevsky (Omsk, Russian Federation)	5 years	Number 20, 02/20/2015
OmSPU (Omsk, Russian Federation)	5 years	01/23/2016
FSBEI HPE OmSAU named after P.A. Stolypin (Omsk, Russian Federation)	5 years	Number 59, 01/11/2016
Agricultural University of Latvia (Jelgava, Republic of Latvia)	5 years	Number 6, 01/21/2016
Department of Biology and Teaching Methods		
University of Aquilla - Italy	5 years	05/24/2012
Taraz State Pedagogical Institute	5 years	09/25/2017
Kazakh Agrotechnical University named after S.Seifullin	5 years	a3 / 17 from 09.25.2017

Kazakh National Pedagogical University named after Abay	5 years	No 3 on 02/12/2019
Al-Farabi Kazakh National University	5 years	01/29/2019
Omsk State Pedagogical University	5 years	01/29/2016
Omsk State Agrarian University named after P.A. Stolypin	5 years	01/11/2016

### ***Analytical part***

An analysis of the results of post-monitoring showed that when implementing the OP, the recommendations of previous accreditation procedures were taken into account.

An analysis of the documentation showed that the leadership of the EP demonstrates the transparency of the processes of forming the development plan of the EP by posting their content on the university portal <http://www.kgu.kz>, in the syllabus, in the student's guidebook, booklet for applicants, career guidance materials, etc. . When discussing and planning the EP, all categories of stakeholders are fully involved, which is documented by the presence of the minutes of the department's meetings.

Despite the presence of concluded agreements with partner universities for accredited educational programs, there is no double degree education.

During the reporting period, the management of accredited EPs did not take advanced training courses on education management programs.

### ***Strengths / Best Practices:***

- 1) The quality assurance policy reflects the link between research, teaching and learning
- 2) EP management ensures transparency in the development of the EP development plan based on an analysis of its functioning, the real positioning of the university and the focus of its activities on meeting the needs of the state, employers, interested persons and students.
- 3) EP management attracts representatives of stakeholder groups, including employers, students and faculty members, to formulate the EP development plan.
- 4) The EP leadership demonstrated the individuality and uniqueness of the EP development plan, its consistency with national development priorities and the educational organization development strategy.
- 5) EP management provided evidence of the transparency of the educational program management system.
- 6) The EP management demonstrated the successful functioning of the internal quality assurance system of the EP, including its design, management and monitoring, their improvement, decision-making based on facts.
- 7) EP management ensures the participation of representatives of interested parties (employers, teaching staff, students) in the collegial bodies of the educational program management, as well as their representativeness in making decisions on educational program management.

### **The Commission recommends:**

- ensure the availability on the university website of documents such as: a code of honor for teachers and staff of KSU named after S. Ualikhanov; academic honesty policy Sh. Ualikhanov;
- to continue work on the development of double-degree education and to develop joint educational programs in the areas of accredited educational programs.
- expand international cooperation with universities partners.
- translate and publish the quality policy of the university in English
- draw attention to the necessity of passing the heads of OP refresher courses on management education programs.

### ***The conclusions of the EEC on the criteria:***

***According to the Standard " Management of the educational program ", the accredited educational programs "5B011200 / 6B01504-Chemistry", "6M060600 / 7M05301-Chemistry", "5B011300 / 6B01514-Biology", "6M011300 / 7M01504-Biology" have 7 strong, 9 satisfactory positions and 1 position requires improvement; the educational program "5B070100 / 6B05102 - Biotechnology" has 5 strong, 9 satisfactory positions and improvement is required in 3 positions.***

### ***6.2. Standard "Information Management and Reporting"***

### ***Evidence part***

At Sh.Ualikhanov KSU, information management processes, including collection and analysis, have been introduced. Maintaining the mission, goals, objectives and evaluating their effectiveness is carried out in accordance with the current documented procedures “Management Analysis” .

At the meetings of the Academic Council of the University, the administration, departments, the Council of faculties, questions of the formation of the contingent and the results of admission of applicants are considered. Decisions made by the Academic Council, the UMC, and the rector are communicated to employees in the relevant extracts from the minutes of the meetings.

The work of the graduating departments of the university is reflected in annual reports with the presentation of the individual work of each teacher in teaching, research and educational work.

The university’s top management (rector and vice-rector for supervising issues) has in their schedule days and hours of visits for students and staff on personal issues: the rector - on Wednesdays from 16.00 to 18.00, the vice-rector for UiUMR - on Tuesdays from 16.00 to 18.00 ., Vice-rector for HP and MS - on Thursdays from 4 p.m. to 6 p.m., Vice-rector for SKR - on Fridays from 4 p.m. to 6 p.m. Head of the Department of Chemistry and Biotechnology - on Tuesdays from 4 p.m. to 6 p.m., head of the Department of Biology and MT for - . Tuesdays from 16.00 to 18.00 There is a possibility of direct appeal to the leadership through the blog projector of KSU on site ( <http://www.kgu.kz/index.php/blog-rektora> ).

In order to identify the views of students and faculty on the quality of professional activity of teachers, on the level of organization of the session, on academic performance, on the quality of managerial activity and on other important issues of the educational process, the university conducts sociological studies using approved questionnaires.

The safety of information is ensured by the unambiguous distribution of functions in the information systems used, the availability of antivirus programs, system administration of servers, a backup system on servers, restricting access of individuals to a room with servers, technical equipment of rooms with servers to ensure operational safety.

When making decisions on the planning and implementation of accredited EPs, the university takes into account the dynamics of the student body, which is reflected in table 4

**Table 4 - Information about the movement of contingent accredited by OP**

EP 5B011300 – Biology									
Indicators	2015-2016		2016-2017		2017-2018		2018-2019		
	full time	extramural	full-time	extramural	full-time	extramural	full-time	extramural	
Admission to 1 course	twenty	25	23	25	40	thirty	31	one	
Arrived during the academic year (translated, restored)	-	-	-	-	5	-	3	-	
Decreased during the academic year	2	-	2	-	3	2	3	-	
EP 6M011300 - Biology									
Indicators	2015-2016		2016-2017		2017-2018		2018-2019		
	full time	extramural	full-time	extramural	full time	extramural	full time	extramural	
Admission to 1 course	3	-	17	-	9	-	6	-	
Arrived during the academic year (translated, restored)	-	-	-	-	-	-	-	-	
Decreased during the academic year	-	-	-	-	-	-	-	-	
EP 5B070100 - Biotechnology									
Indicators	2015-2016		2016-2017		2017-2018		2018-2019		
	full time	extramural	full-time	extramural	full time	extramural	full time	extramural	



Admission to 1 course	fifty	-	53	-	67	-	24 6	-
Arrived during the academic year (translated, restored)	one	-	-	-	one	-	16	-
Decreased during the academic year	5	-	8	-	9	-	16	-
EP 5B011200 / 6B01504-Chemistry								
Indicators	2015-2016		2016-2017		2017-2018		2018-2019	
	full time	extramural	full time	extramural	full time	extramural	full time	extramural
Admission to 1 course	1 0	-	16	-	32	-	10	-
Arrived during the academic year (translated, restored)	-	-	-	-	-	-	-	-
Decreased during the academic year	-	-	-	-	2	-	-	-
EP 6M060600 / 7M05301-Chemistry								
Indicators	2015-2016		2016-2017		2017-2018		2018-2019	
	full time	extramural	full time	extramural	full time	extramural	full time	extramural
Admission to 1 course	2	-	6	-	2	-	3	-
Arrived during the academic year (translated, restored)	-	-	-	-	-	-	one	-
Decreased during the academic year	-	-	-	-	-	-	-	-

The university pays attention to monitoring the annual employment of graduates (table 5), communicates with the labor market, which allows monitoring compliance of strategic plans with the real demand, both in the market of professions and in the market of highly qualified specialists.

Table 5 - Employment of graduates by specialty (%)

EP	2016	2017	2018
EP 5B011300 - Biology	89	90	100
EP 6M011300 - Biology	100	100	100
EP5B070100 - Biotechnology	65.3	95	95
EP 5B011200 / BV01504-Chemistry	87.5	100	100
EP 6M060600 / 7M05301-Chemistry	fifty	100	100

When students enter the university and when hiring employees, they give written consent to the collection, storage, processing and use of personal information. Written consent is stored in the personal files of students and staff in the personnel department.

#### **Analytical part**

As the results of the student survey showed, students are generally satisfied with the quality of feedback from the university leadership. In particular, 89.7% of respondents (116 surveyed students) were fully satisfied with the quick response to feedback from teachers regarding the educational process and the relations between teachers and students, and 9.5% (11 respondents) were partially satisfied; 87.1% of students were satisfied, and 10.3% were partially satisfied with informing students about courses and educational programs;

Questioning of students showed the general satisfaction of students with the quality of teaching and material and technical support of the educational process. For example, 70.7% of the students surveyed were satisfied, and 27.6% were partially satisfied with the level of accessibility of library resources; 90.5% of students were satisfied, and 7.8% were partially satisfied with the quality of

teaching; 73.3% of students were satisfied, and 19.8% were partially satisfied with existing research laboratories;

Most of the students surveyed during the questionnaire were satisfied with social living conditions: 56.9% of students were satisfied, and 24.1% were partially satisfied with student lounges; 73.3% of students were satisfied, and 19.8% were partially satisfied with providing students with a hostel; 87.1% of students were satisfied, and 6.9% were partially satisfied with providing sufficient opportunity for playing sports and other leisure activities;

#### ***Strengths / Best Practices***

1) Students, employees and teaching staff are involved in the processes of collecting and analyzing information, as well as making decisions based on them;

2) The university provides a measure of the degree of satisfaction of the needs of faculty, staff and students in the framework of EP and demonstrates evidence of the elimination of discovered deficiencies;

3) the dynamics of the contingent of students in the context of forms and types.

4) level of academic achievement, student achievement and expulsion

5) student satisfaction with the implementation of the academic program and the quality of education at the university;

6) the availability of educational resources and support systems for students;

7) employment and career growth of graduates.

8) Students, employees and teaching staff document their consent to the processing of personal data.

#### **The Commission recommends:**

- timely update the content (content) of the website and the educational portal of the university, especially in the field of international cooperation and international educational programs.

***The conclusions of the EEC on the criteria: According to the standard "Information Management and Reporting" accredited educational programs have 8 strong and 9 satisfactory positions.***

### ***6.3. Standard "Development and approval of educational programs"***

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

The University has a Regulation on the development of EP in the framework of the Standard of the University of QMS STU 4.03-2018 "Design, development of educational services, management of educational and organizational processes" (approved on January 18, 2018), which reflects the main stages of development and approval of the EP, as well as the process their actualization. The content of the educational program is established by the relevant state compulsory education standards, approved by the Government of the Republic of Kazakhstan dated August 23, 2012 No. 1080 (as amended and supplemented by the Government of the Republic of Kazakhstan dated 13.05.2016 No. 292), and implemented through curricula and programs. The educational programs comply with the standard curricula and are implemented in accordance with the "Rules for the organization of the educational process on credit education technology", approved by order of the Minister of Education and Science of the Republic of Kazakhstan dated April 20, 2011 No. 152 (as amended by the order of the Minister of Education and Science of the Republic of Kazakhstan dated 02.06.2014 No. 198, as amended by the order of the Minister of Education and Science of the Republic of Kazakhstan dated October 12, 2018 No. 563).

All accredited EPs go through a multilevel procedure of discussion, development, approval and approval. Formation of work plans for the new school year with their revision and updating begins well in advance in the middle of the school year, which allows us to discuss their content, the complexity of theoretical and practical training components, and the final certification module. Representatives of all categories of stakeholders (faculty, students, employers) participate in the discussion and development of the EP, which is reflected in the minutes of the departments' meetings. Students with the help of

advisers are formed IUP, in accordance with TUP and KED, on the basis of which annually compiled RUE for one academic year.

Peer review is carried out by employers and stakeholders in the field of education . All accredited EPs undergo an external examination procedure, the results of which are taken into account during subsequent amendments and adjustments to the OP. There are reviews from the following reviewers: Kurmanbaeva M.S. - Doctor of Biological Sciences, Professor, Head of Department. Biodiversity and bioresources KazNU them. Al-Farabi; Akhmetova A.B. - Ph.D., associate professor of the Department of Biophysics and Biomedicine, KazNU Al-Farabi; Kirillov V.Yu., Ph.D., assoc. professor deputy gene. Director for Science LLP "KazNIILH" (Schuchinsk); Koshanova A.B. - Biology teacher of the highest category " IT lyceum schools", head teacher of academic work (employer); Dondagulova Zh.S. - Deputy Head of the State Institution “Department of Education”, Kokshetau; Kaldyrbaeva G.Sh. - Head of the city methodological association of biology teachers in Kokshetau.

As a result of the formation of the EP, graduate models have been developed in accordance with the level of education of the bachelor-master program.

Educational programs are reviewed and updated annually regarding the content of curricula, the composition and content of work programs of disciplines, training and practical training programs, teaching materials that ensure the implementation of appropriate educational technology, taking into account the development of science, technology, culture, economics, technology and social sphere and needs employers and academic interests of students. The basis for an unscheduled revision of the EP may be: changes in the State Standard of Public Provision, specialty TUP; changing labor market requirements. So, in recent years , the following changes have been made to the EP 5B011300 / 6B01514-Biology : Basic foreign language ( level B 1), Basic foreign language (level B 2), Gerontology, Methods of teaching biology in English and Yish, Indoor plants and other

In the university from the 2012-2013 academic year, multilingual educational programs in the specialties of undergraduate and graduate programs are implemented. In accordance with the State Educational Standard of Higher Education, multilingual educational programs consist of 50% of the disciplines read in the language of instruction, 20% of the disciplines read in Russian / Kazakh, and 30% of the disciplines read in English.

Table 6 - Educational paths within the accredited undergraduate courses

Cipher	Naim - Considerations for special - Nosta	Name of educational programs (trajectory)				
		2018 set	2017 set	2016 set	2015 set	2014 set
5B011200	Chemistry	1 Chemistry and biology in a primary school (multilingual education) 2 Chemistry (in English)	1 Chemistry and Biology (multilingual education) 2 Chemistry (in English)	Chemistry and Biology in Basic School (multilingual education)	1 Chemistry and biology in a primary school (multilingual education) 2 Chemistry (in English)	1 Chemistry and biology in a primary school (multilingual education) 2 Chemistry, water and soil ecology
5B011300	Biology	1 Biology 2 Biology (multilingual education) 3 Biology (in English)	1 Biology 2 Biology (multilingual education) 3 Biology (in English)	1 Biology (multilingual education) 2 Biology (in English)	2 Biology 2 Biology (in English)	Biology (multilingual education)
5B 070100	Biotechnology	Food Biotechnology	Food Biotechnology	Biotechnology of bioorganic compounds	Biotechnology of bioorganic compounds	1 Biotechnology of bioorganic compounds 2 Biotechnology of food products

In the framework of accredited EPs, the university provides training for masters in the following educational paths (table 7):

Table 7 - Educational trajectories in the framework of accredited Master's programs

Cipher	Name of specialty	Name of educational programs (trajectory)			
		2018 set	2017 set	2016 set	2015 set
6M060600	Chemistry	Teaching chemistry in English (multilingual education)	Teaching chemistry in English (multilingual education)	Teaching chemistry in English (multilingual education)	
6M011300	Biology	Biology (multilingual education) Biology (polylingual education)	Biology (multilingual education) Biology (polylingual education)	Biology (multilingual education)	Biology (multilingual education)

The types of students' practices provided for by the state compulsory standard of higher education are established in accordance with the profile of the undergraduate specialty.

The purpose of the educational (familiarization) practice of students of higher educational institutions is the acquisition of primary professional competencies, including consolidating and deepening theoretical knowledge gained in the learning process, obtaining the first research skills, business correspondence skills, the acquisition of practical skills and work skills in accordance with the specialty of training. Educational (fact-finding) practice is carried out on 1 course.

The purpose of language practice is to develop students' interpretation and translation skills, as well as business and friendly communication skills.

The purpose of pedagogical practice is to consolidate and deepen knowledge in general scientific, cultural, psychological and pedagogical, methodological and special disciplines, as well as the formation of pedagogical abilities, skills and competencies on the basis of theoretical knowledge.

Pedagogical practice is continuous, that is, it is carried out in parallel with theoretical training and includes: 1) passive practice of 1st year students; 2) psychological and pedagogical practice of students of 2-3 courses; 3) production pedagogical practice of students of 4 courses. The bases of pedagogical practice are: Nazarbayev Intellectual School of FMN, Kokshetau, KSU "Regional Specialized Boarding School No. 3 for gifted children (with the Kazakh language of instruction), Kokshetau, State Institution" Secondary School No. 1 "of the Education Department of Kokshetau; State institution "Secondary school No. 18" of the education department of the city of Kokshetau; The departments have relevant agreements with educational organizations on the creation of their practice bases.

Undergraduate practice is organized for students performing thesis (project). The purpose of undergraduate practice is to complete the writing of the thesis (project).

When implementing the EP, the magistracy provides for two types of practices: pedagogical and research. The pedagogical practice of undergraduates is carried out with the aim of forming practical skills and teaching methods in higher education. Pedagogical practice is carried out during the period of theoretical training on the job at the graduating department, with a cycle of lectures and practical classes.

The research practice of the undergraduate is carried out with the aim of acquainting with the latest theoretical, methodological and technological achievements of domestic and foreign science, with modern methods of scientific research, processing and interpretation of experimental data.

Assessment of students according to the results of practical training and the conclusion is given by the head of practice from production, which reflects comments, suggestions, opinions. This is voiced when defending professional practice reports.

For example, on April 17, 2019, at the Department of Biology and MP, the final conference was held on the passage of pedagogical practice by 4-year students, specialty Biology, which took place from February 4, 2019 - April 13, 2019, in the following basic enterprises with which contracts were concluded: KSU "IT school-lyceum", Kokshetau; KSU "Secondary School-Lyceum named after Saken Zhunusov" of the Education Department of Kokshetau; KSU "Syrymbet Secondary School" of the Education Department of the Akimat of the Ayyrtau District of the North Kazakhstan Region; KSU "Profile School-Gymnasium of Multilingual Education No. 3 named after M. Gabdullin", Kokshetau; KSU lyceum boarding school "Bilim-Innovation" education department of Akmola region.

The Department of Chemistry and Biotechnology 04/04/2019 held the final conference on practical training by students of the specialty "Biotechnology", which was held from January 21 to March 30, 2019, location: LLP MilkProject, LLP Gormolzavod Kokshetau, LLP Kazmyasoproduct Petropavlovsk, Bulandy-Astyk LLP, Baltic Control KZ Certification LLP, RSE at the National Center for Expertise of the Akvola Oblast, National Center for Expertise and Certifications Kokshetau, Nizhe LLP, KR AChM WB Well KK "RVZ" SHZH RMK OKΘΦ Saryakash audandyk veterinary medicine epr zerkhanasy "district of Saryakash.

04/15/2019, the final conference on the pedagogical practice of students of the specialty "Chemistry" was held, who went on to practice in secondary school No. 12 in Kokshetau, a specialized boarding school for gifted children No. 3 with the Kazakh language of instruction, Nazarbayev Intellectual School.

### **Analytical part**

Despite the existence of concluded agreements on cooperation with partner universities within the framework of accredited EPs, there are no double-degree programs and joint EPs with foreign educational organizations and are not implemented.

Students in bachelor's educational programs have the opportunity to choose educational trajectories in accordance with their interests. There are 2 trajectories for the EP "5B011200/ 6B01504-Chemistry": "Chemistry and Biology in a Basic School (multilingual education)" and "Chemistry (in English)". For the educational program "5B011300/6B01514-Biology" there are three educational paths for the years 2018 and 2017: "Biology", "Biology (multilingual education)" and "Biology (in English)"; two educational trajectories for 2016 and 2015 admission: "Biology (multilingual education)" and "Biology (in English)"; and one educational trajectory "Biology (multilingual education)" for 2014 admission.

According to the educational program "5B070100 / 6B05102 - Biotechnology" for 2018 and 2017, the university implements only one educational trajectory - "Food Biotechnology". For 2016 and 2015, there is also only one educational trajectory - "Biotechnology of bioorganic compounds". For 2014 alone, students enrolled in EP "5B070100 / 6B05102 - Biotechnology" have the opportunity to choose from two educational paths: "Biotechnology of bioorganic compounds" and "Biotechnology of food products".

The content of the disciplines of the DB and PD cycles corresponds to the profile of trained specialists in the field of education. The disciplines of the theoretical cycle are further fixed in the modules of professional practice.

The logic of the academic relationship of disciplines is determined by a system of pre- and post-requisites. For example: according to the OP Biology, in order to study the discipline "Systematics of plants", knowledge of such disciplines as: "Anatomy and morphology of plants", "Structural botany" is required. In the magistracy, the mastery of the discipline "Modern Problems of Plant Physiology" is preceded by the study of the disciplines "Plant Physiology" in the undergraduate program.

### ***Strengths / Best Practices***

1) The university determines and documents the procedures for the development of EP and their approval at the institutional level.

2) EP management ensures compliance of developed EP with established goals, including expected learning outcomes.

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

- 4) EP management determines the impact of disciplines and professional practices on the formation of learning outcomes.
- 5) EP management provided evidence of the participation of students, faculty and other stakeholders in the development of EP, ensuring their quality.
- 6) The structure of the EP provides for various activities corresponding to the learning outcomes.

**The Commission recommends:**

- complete the development of joint educational programs with foreign educational organizations in the areas of accredited educational programs.
- increase the number of educational trajectories in the EP “5B070100 / 6B05102 - Biotechnology”.

*The conclusions of the EEC according to the criteria: According to the Standard "Development and approval of educational programs" accredited educational programs have 6 strong, 5 satisfactory positions and 1 position implies improvement.*

**6.4. Standard "Continuous monitoring and periodic evaluation of the educational program" Evidence part**

At KSU named after S. Ualikhanova, monitoring the quality of accredited EPs consists of the following procedures: internal assessment of the EP (self-assessment of the EP in the framework of specialized accreditation, assessment of the quality of teaching, verification of activities for the implementation of the EP); internal assessment of the university: self-assessment and compliance with regulatory documents (standards, guidelines for self-assessment) of accrediting independent agencies; external assessment: VOUD, specialized (program) accreditation, EP rating, Final state certification of students; external assessment of the educational activities of the university: verification of compliance with the law, institutional accreditation, rating.

Monitoring and evaluation of EP is carried out at the level of the department, dean's office and administration administration with the obligatory analysis and consideration of reporting on the dynamics of the program at meetings and the adoption of appropriate decisions for their implementation.

At the department level, in accordance with the established schedule, control is carried out for all types of activities (classroom, educational, methodical, research, educational, independent work of students, etc.) with discussion at weekly operational meetings. At the end of the 1st and 2nd semesters, an analysis of the teaching staff for the semester is carried out with discussion at a meeting of the department and decision making. If necessary, corrective actions are taken.

The dean of the faculty weekly discusses the results of monitoring the progress of the educational process, analyzes the attendance of classes and the results of current and midterm control. According to the approved plan, it considers the quality of the educational process and research in the specialty, the activities of departments and individual teachers. On the issues under consideration, decisions are made by the faculty council with the development of corrective actions, if necessary. The implementation of planned work is supervised by the dean of the faculty.

At the university level, an analysis of the state of the educational process is carried out weekly at a meeting of the administration with the participation of vice-rectors, educational center, departments with specific decisions. The issues of the quality of educational services are systematically considered at meetings of the university administration and the Academic Council.

Monitoring the status of the issues under consideration is carried out by the competent commissions created by the order for the university, faculty. The implementation of decisions made is monitored by the commission and discussed at meetings of the Academic Council of the University and the Faculty Council.

When planning an EP for each specific discipline, a reference to the fundamental strategic documents of the Republic of Kazakhstan is provided. For example, in the Biology and Chemistry Department in the disciplines of the Training Methods module and undergraduate levels, it is mandatory to include the study of such documents as: annual Messages of the President of the Republic of

Kazakhstan N. Nazarbayev to the people of Kazakhstan; Professional standard “Teacher” (to the order of the Chairman of the Board of the National Chamber of Entrepreneurs of the Republic of Kazakhstan “Atameken” No. 133 dated June 8, 2017, curricula of secondary education as part of updating the content of secondary education, etc.

The educational programs “5B011200 - Chemistry”, “6M060600-Chemistry”, Biology, 6M011300-Biology and “5B070100 - Biotechnology” are compiled in accordance with the State Educational Standards of the Republic of Kazakhstan (Bachelor, Master), approved by order of the Ministry of Education and Science of the Republic of Kazakhstan dated May 13, 2016 No. 292 and implemented in accordance with the "Rules for the organization of the educational process on credit technology of education, approved by order of the Minister of Education and Science of the Republic of Kazakhstan dated April 20, 2011 No. 152 (as amended by the order of the Minister of Education and Science of the Republic of Kazakhstan dated 01.28.2016 No. 90), as well as Based on the standards of the University of QMS STU 4.03 “Design, development of educational services, management of educational and organizational processes” and the Regulation “On the introduction of multilingual education at KSU named after S. Ualikhanov”.

The procedure for assessing students consists of the current control of progress in midterm control (RK1 and RK2) and the final control in the form of an exam. Intermediate controls for each discipline and assessment criteria are indicated in the work programs of the academic discipline. Final certification takes place in the form of a state exam in the specialty and defense of final qualification work. When conducting the final certification, the head of the secondary school and enterprises - practice bases by profile are invited as the chairman.

Begalina Bakhyt Akayevna, KSU “Secondary School No. 18”, Kokshetau, a teacher of chemistry of the highest category, in the 2017-2018 academic year, Roza Kazhanovna Shashkenova, KSU “Secondary School No.”, was the chairman of SAC OP Chemistry (undergraduate) in the 2016-2017 academic year. 12”, Kokshetau, a chemistry teacher, Tashenov Auskhan Kariphanovich - doctor of chemical sciences, professor, head of the department of chemistry at the Eurasian National University L.N. Gumilyov.

In 2016 - 2017 in the 2017-2018 academic year, the SJC Chairman OP Biology (Bachelor) - was a Sarsembayeva Bayan Vahitovna - Head of the KSU "High school-lyceum №18 named S.Zhunosova" Kokshetau department of education, the higher the teacher of biology categories, the Chairman of the SAC OP 6M011300- Biology (Master) was Zandybai Amanbek - acting Associate Professor, Department of Management and Engineering, Environmental Protection, Eurasian National University L.N. Gumileva

The chairman of SAC EP Biotechnology (bachelor's degree) in the academic year 2016–2017 was Alma Yensegenova, director of the RSE Center for the Expertise of Medicines, Kokshetau, and in the academic year 2017–2018, Arystanova Sholpan Yeskuatovna, candidate of biological sciences., Associate Professor, Department of Biotechnology and Microbiology, Eurasian National University. L.N. Gumilyov.

### ***Analytical part***

According to the results of the student survey, 88.8% of the respondents were satisfied, and 7.8% were partially satisfied with the fairness of exams and attestations. Interviews with students also showed a high degree of satisfaction of students and undergraduates with the assessment process.

As shown by a visit to the university’s website, updating accredited EPs is not timely and not fully reflected in the relevant sections of the university’s website. Educational programs for the 2018-2019 academic year were published on the site only after expert comments on the self-assessment report of accredited EPs.

### ***Strengths / Best Practices***

one) Monitoring and periodic assessment of EP consider: changes in the needs of society and the professional environment ;

2) Monitoring and periodic assessment of EPs consider the expectations, needs and satisfaction of students with training in EP.

3) The university and the EP management provided evidence of the participation of students, employers and other stakeholders in the revision of the EP.

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

*The weakness of the EP is:*

5) All interested parties should be informed of any planned or taken actions in relation to the OP. All changes made to the EP should be published.

**The Commission recommends:**

- timely publish all changes made to the OP.

***The conclusions of the EEC according to the criteria: According to the Standard " Continuous Monitoring and Periodic Evaluation of the Educational Program ", accredited educational programs have 4 strong, 5 satisfactory positions and 1 position implies improvement.***

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

***Evidence part***

Students of KSU named after Shokan a Ualihanova is an active subject of the life and educational process of the university. In this regard, he takes part in the formation of educational programs, also independently forms the path of education, chooses a teacher and the teaching methodology with his own view on the level of teaching efficiency.

The disciplines of EP 5B011200 / 6B01504 - Chemistry, 6M060600 / 7M05301 - Chemistry, 5B011300 / 6B01514 - Biology, 6M011300 / 7M01504 - Biology, 5B070100 / 6B05102 - Biotechnology are distributed according to the logic of their study and the semester of study.

At the beginning of the semester, each student is provided with a teaching and methodological complex (TMK), which includes Syllabus, handouts, a brief lecture notes, plans for practical (seminar) classes, self-study programs and self-study programs, test assignments, semester assignments, exam questions, contains a policy Grading and grading criteria.

For students with special educational needs, they have access to library and information resources, free movement through the academic buildings, dormitories and social facilities of the university, ramps and pictograms are installed. To meet the needs of such students in educational and methodological support, the university plans to purchase special educational literature, etc. Also, one of the areas of student-centered learning is the participation of students in subject Olympiads. Students, as a rule, of senior and final courses of all universities of the Republic of Kazakhstan take part in the Olympiads.

The following forms and types of activity contribute to the effective organization of multilingual education in the field of Chemistry and Biology: a combination of individual, paired and group work; work with different sources of information; educational dialogue; case methods; game and role forms of activity, independent work of students in improving their knowledge of languages. Regardless of the language of instruction, all students are given equal opportunities in choosing an educational trajectory.

List of subjects in the English language for EP "6M011300/7M01514- Chemistry » General chemistry, Inorganic chemistry, Organic chemistry, Biochemistry, Physical and colloid chemistry, Chemical synthesis, of Research Methods of organic compounds, Chemical technology.

For the EP "6 M 060600/7M 05301 Chemistry " Modern problems of physical chemistry, Macromolecular chemistry, Course of inorganic chemistry, Methods of teaching chemistry in secondary school .

The list of disciplines in the English language for the EP "6M011300/7M01514- Biology » Cytology and Histology, Human Anatomy, Human and Animal Physiology, Biochemistry, Plant Physiology, Genetics, an Applied Biology with the Basics of the Soil Science.



For the EP “6M011300/7M01504 - Biology ” Molecular mechanisms of heredity and variability , Ontogenesis, Modern problems of plant physiology.

The department is constantly working to improve the educational - methodological support of the educational process in basic and majors. The teaching staff of the department uses their own electronic textbooks and teaching aids in the educational process: according to the course “Beirorganic chemistry” (author Tleuova Z. Sh.), According to the course “Organic chemistry” (author Tleuova Z. Sh.), According to the course “Omyrtasyssydar zoology”, “Omyrtgalylyar zoology” (authors Shakirzhanova I.S., Sharipov B.O., Maimakova DB), according to the course “Microbiology and female virology” (authors Kyzdarbekova G.T., Maymakova DB), according to the course “ Microbiology and virology ”(authors Sharipova B.U., Rospaeva A.M.), on the course“ Anatomy of the wife of sports and morphology ”(author Shakirzhanova I.S.), CMC on the course " Evolutionary biology" (author Safronova N.M. ), teaching materials on the course "Theoretical biology" (author Zhumabaeva S.E.), Textbook "Bioecology" (Authors Fakhrudanova IB, Tazitdinova R.M., Khamitova A.S., Nurmukhanbetova N.N., Smailova G.T.), Study guide "Technology for the production of yeast" (Authors Fakhrudanova IB, G.A. Loskutova, Sergazina S.M.), Educational manual "Environmental chemistry" (Author Sergazina SM), Atlas of the NMR spectra of simple organic compounds in ACDLabs-6 format ( Authors Seilkhanov TM, Nazarenko LN, Seilkhanov OT . ) , NMR spectroscopy of cyclodextrin inclusion complexes (Author T. Seylkhonov), etc.

Practical classes and seminars are conducted using interactive teaching methods: “brainstorming”; analysis of specific situations ("casestudy"); knowledge circles; daw strategy (Tick-box); o discussion; visiting classes, and others. Also, teachers OP used Kahoot.i capabilities of the system, LearningApps ,

The university has an effective information system and feedback: the website of KSU named after Sh. Ualikhanov , the page for the entrant, the sites of history and events of KSU named after Sh. Ualikhanov , an electronic library, a student forum, an educational portal, etc. Based on the analysis of feedback results on implementation student-centered learning in the OP provides for a change in the methodology of teaching disciplines, i.e. shift of emphasis on independent activity and reflection, increasing personal responsibility for learning outcomes. The university presents all the possibilities for implementing student-centered learning.

### ***Analytical part***

Questioning of students showed general satisfaction of students n Support of educational materials in the learning process , and existing training resources of the university . For example, a 84 , 5 % of the students were satisfied 12 , 1 % partially satisfied , and 3.4 % partially not satisfied .

According to the results of the survey, b ystrotoy response to feedback from teachers about the learning process 89.7 % of the students surveyed were satisfied, 9 , 5 % are partially satisfied and 0.9 % partially not satisfied .

### ***Strengths / Best Practices***

1) leadership to ensure Vaeth respect and attention to different groups of students and their needs, providing them with flexible learning paths.

2) EP management provides the use of various forms and methods of teaching and learning

3) The leadership of the EP demonstrates support for the autonomy of students with simultaneous guidance and assistance from the teacher.

4) EP management demonstrates the existence of a procedure for responding to student complaints.

5) The university ensures the consistency, transparency and objectivity of the mechanism for assessing learning outcomes for each EP, including the appeal.

*The weakness of the EP is :*

1) Evaluators must be proficient in modern methods of assessing learning outcomes and regularly improve their skills in this area.

**The Commission recommends :**

- include the formula for calculating performance with the weight fractions of the final control, admission rating and current performance in the description of the EP.

***The conclusions of the EEC on the criteria: According to the Standard "Student-centered Learning, Teaching and Assessment of Performance" accredited educational programs have 5 strong and 4 satisfactory positions, and improvement is required by 1 criterion.***

***6.6. Standard "Learners"***

***Evidence part***

EP management demonstrates the policy of forming a contingent of students of EP from receipt to graduation and ensures the transparency of its procedures. During the adaptation week, meetings are organized with deans, heads of departments and advisers, acquaintance with the Charter, mission and strategy of the university, the rules of conduct at the university, with prospects for future professional activities, the formation of an individual educational trajectory, etc. All the procedures governing the life cycle of students approved by the Academic Council and published in the student handbook-guide <http://kgu.kz/informacia-dla-studenta>.

Reception and access to learning accredited by the OP is in accordance with the regulations of the Ministry of Education and Science of the Republic of Kazakhstan (MES RK) - Resolution of the Government of the Republic of Kazakhstan №1 74 from from 04.06.2017 "On approval of the standard rules of admission to the organization of education, realizing professional higher education curricula."

Admission to the magistracy is carried out in accordance with the Decree of the Government of the Republic of Kazakhstan No. 404 dated 07/14/2016. "Typical rules for admission to training in educational institutions that implement professional curricula of postgraduate education." Admission to the magistracy is carried out on a competitive basis according to the results of entrance exams. According to the EP (6M060600 - Chemistry, 6M011300 - Biology) of the magistracy, the training of specialists is carried out in scientific, pedagogical and specialized areas. With a training period of 2 and 1 year, respectively.

For training on the accredited EP 6M060600 - Chemistry, 6M011300 - Biology, applicants with an academic Bachelor's degree and passing entrance exams are accepted on a paid basis. Under this EP, a bachelor of science in the specialty "Chemistry" and a bachelor of education in the specialty "Biology" without passing prerequisites can be trained. Bachelors of other specialties are trained in EP 6M060600 - Chemistry, 6M011300 - Biology with the successful passing of prerequisites.

People who have scored at least 150 points in the sum of entrance exams are enrolled in state educational order.

The policy for the formation of the contingent of students consists of admitting to the number of students most prepared for studying at a university, consciously choosing a specialty, scoring the required number of points according to the results of UNT (graduates of general secondary schools), KTA (graduates of technical vocational education) on the basis of a state order (grant) and on a paid basis, as well as specialists with diplomas for obtaining a second higher education on the basis of an interview.

The university's website <http://kgu.kz/abiturientu> posted information materials on admission to the university: standard rules, state order.

The academic mobility of students (the ability to study for a certain time in other Kazakhstani and foreign universities) is provided for within the educational program. Financing of academic mobility may be due to: the national budget, including allocated within the framework of national projects; extrabudgetary funds of the university; funds of national and international funds for the support and development of higher and postgraduate education; host funds, including grants from international organizations and private foundations; personal funds of participants of academic mobility.

Table 8 - Students on the program of academic mobility in the framework of accredited the EP

No.	Name of student	Name of university	Academic year	Semester
EP 5B011300 - Biology (outgoing)				
1	Akbar Ainur	KAZNPU named after Abay	2015-2016	3
2	Elubaeva Akmaral	Kazakhstan Statehood First Coats of Pedagogical University	2016-2017	5
3	Aytuganova Balnur	SKSU named after M. Auezov	2016-2017	6
4	Orakbaeva Aidana	Silkway International University	2018-2019	3
5	Usman Kamila	Silkway International University	2018-2019	3
EP 5B011300 - Biology (incoming)				
1	Amangeldieva Arailym Asgarzyzy	TARGU them. M.Kh. Dulati	2017-2018	6
2	Iztleuova Arailym Adiletovna	TARGU them. M.Kh. Dulati	2017-2018	6
3	Kapparova Saltanat Samatkyzy	TARGU them. M.Kh. Dulati	2017-2018	6
4	Niyazbek Aruna Saylbekkyzy	Kyzylorda State University named after Korkyt Ata	2017-2018	6
5	Rakhmetova Aislu Bakhytgizi	Kyzylorda State University named after Korkyt Ata	2017-2018	6
EP 5B070100 - Biotechnology (outgoing)				
1	Amrenova Saltanat Zhangeldievna	Kazakh Agrotechnical University named after Saken Seifullin (Astana)	2016-2017	2
2	Amrenova Saltanat Zhangeldievna	Shakarim State University of Semey	2017-2018	four
3	Rakhymzhan Gulbalu Akhmetzhankyzy	Shakarim State University of Semey	2017-2018	four
4	Amanzhol Kamshat Nyrsultankyzy	Kazakh Agrotechnical University named after S.Seifullin	2017-2018	6
5	Amrenova Saltanat Zhangeldievna	Kazakh National Agrarian University	2018-2019	6
EP 5B070100 - Biotechnology (incoming)				
1	Ontai Zhanar Abatbaykyzy	Semipalatinsk State University them. Shakarima (Semey)	2017 -2018	4,5
EP 5B011200 / 6B01504-Chemistry (outgoing)				
1	Malibek Azhar Zhasylsyzzy	Taraz State Pedagogical Institute	2016-2017	6
2	Kulmatova Diana Nurlankizi	South Kazakhstan Pedagogical University	2017-2018	4
3	Perdeshova Akmaral Anvarovna	South Kazakhstan Pedagogical University	2017-2018	4
4	Halyk Shakizat Erbolzy	Taraz State Pedagogical University	2018-2019	5
5	Mamyr Malika Nyrlankyzy	Taraz State Pedagogical University	2018-2019	5
6	Zhuldikaraeva Aizoda Dysenbekkizi	Silkway International University	2018-2019	6
7	Kulmanova Diana Nurlankizi	Silkway International University	2018-2019	6
8	Perdeshova Akmaral Anvarovna	Silkway International University	2018-2019	6
EP 5B011200 / 6B01504-Chemistry (incoming)				
1	Bektenova Qalamqas Smailkyzy	Taraz State Pedagogical University	2016 - 2017	4

2	Ibra Ymova Akg ʻyl Abdinayovna	Taraz State Pedagogical University	2016-2017	4
EP 6M060600 / 7M05301-Chemistry				
1	Eskendirova Aziza Aybekovna	University of Warsaw (Poland)	2015-2016	3

Table 9 - Foreign students studying within the accrediting the EP

No.	Full name	EP	Course, group	Citizenship
1	Murathan Nurzhausin	5B011300-Biology	1, BK-81	Mongolia
2	Manarbek Erkesh	5B011300-Biology	1, BK-81	Mongolia
3	Kamarhan Lashyn	5B011300-Biology	1, BK-81	Mongolia
4	Їдїлет Гулден	5B070100 - Biotechnology	4 year , BTK-52	China
5	Abdamova Nigina Abdurahimovna	5B070100 - Biotechnology	2 year, BTR-73	The Republic of Uzbekistan

Students and undergraduates of EP "Chemistry" and "Biology" , "Biotechnology" take an active part in various events held within the region, city and university. At KSU named after S. Ualikhanova there are directions, such as, the school of dance art (dance ensemble "Impulse"); school of folk instrument ensemble (folk instrument ensemble "ShagyraK"; pop-vocal studio "Nazqonyr"; school of theater art. To maintain feedback with graduates of the specialties "Chemistry", "Biology" , "Biotechnology" the advisers of the groups monitor their professional activities, organization of meetings with graduates, receiving recommendations from employers.

Students participate in various circles, competitions. They are prize-winners of competitions at various levels: on April 15, the contest "Kozy Kurpesh Bayan Sulu" took place, where student of the BTK-83 group Sheker Laura took 2nd place, students of the BTK-81 and BTK-89 group Sadyk Ayaulym and Amangeldi Abai received the "Bright Students" nomination diplomas.

Students' satisfaction with the quality and conditions of education is monitored through student surveys, surveys, and tests.

### **Analytical part**

At KSU named after S. Ualikhanov is regulated and reflected in the academic policy by the procedure for the formation of the university contingent. The teaching staff of the department regularly conduct career guidance and informational meetings with potential applicants. For the adaptation of the students, an orientation orientation week is being conducted. Students take an active part in the scientific, academic and sociocultural life of the university, according to the specifics of the OP: conferences, circles, etc. As part of the implementation of academic mobility, students go to universities in Kazakhstan .

The meeting of the members of the expert commission with employers and visits to the practice bases confirmed the maximum amount of efforts to provide students with places of practice and assistance. Questioning of students showed the general satisfaction of students with explaining to them before entering the rules and strategies of the educational program (86.2% of the students surveyed were satisfied, 11.2% were partially satisfied, and partially were not satisfied 1.7%) and by surveying the level of implementation of these rules and strategies educational program (87.9% of students were satisfied, 10.3% were partially satisfied, and 1.7% were partially unsatisfied); According to the results of the questionnaire on informing the requirements in order to successfully complete this specialty - 92.2 % of the students surveyed were satisfied, 6.9% were partially satisfied, and 0.9% were partially not satisfied.

Analyzing the EP on filling the standard "Learners" in accredited areas, the commission notes:

### **Strengths / Best Practices**

1) The EP leadership demonstrated the implementation of special adaptation and support programs for newly arrived and foreign students.

- 2) The EP management makes the maximum amount of effort to provide students with places of practice, to facilitate the employment of graduates, and to maintain contact with them.
- 3) The university provides graduates of EP with documents confirming the qualifications obtained, including the results of training, as well as the context, content and status of the education and evidence of completion.
- 4) An important factor is monitoring the employment and professional activities of graduates of EP.

*The weaknesses of the EP are :*

- 1) The university should cooperate with other educational organizations and national centers of the " European Network of National Information Centers for Academic Recognition and Mobility / National Academic Recognition Information Centers" ENIC / NARIC in order to ensure comparable recognition of qualifications.

**The Commission recommends :**

- the leadership of the university and the EP to take measures to participate in the Erasmus program for students and faculty of the university, as well as the development of joint EP through the Erasmus + Capacity Building program.
- bring the regulatory document governing the organization of academic mobility of students at a university in accordance with amendments to the legislation of the Republic of Kazakhstan on education and the Lisbon Convention on Recognition.
- the leadership of the university and academic staff to expand the geography and increase the number of students traveling by academic mobility to English-speaking countries in order to develop the existing multilingual potential of students.

**The conclusions of the EEC according to the criteria: According to the Standard "Learning" accredited educational programs have 4 strong, 7 satisfactory and 1 position suggesting improvement.**

**6.7. Standard “Faculty and Teaching Effectiveness”**

**Evidence part**

Personnel policy of KSU named after S. Ualikhanova consists in a clear planning of the development of teaching staff, stimulation and encouragement for achievements in work. The types of PPP incentives and the procedure for their application are determined by the legislation of the Republic of Kazakhstan, orders of the rector, and a collective agreement. Based on the results of the rating, an additional payment is established for faculty members holding a full-time position, as well as for candidates and doctors of sciences for the formation of creative qualities.

The staffing according to EP 5B011200 / 6M060600 - Chemistry, 5B011300 / 6M011300 - Biology, 6B05102-Biotechnology are presented in table 10.

Table 10 - The teaching staff involved in the implementation of the EP 5B011200 / 6M060600 - Chemistry, 5B011300 / 6M011300 - Biology, 6B05102 - Biotechnology in the 2018-2019 academic year

Code and name of specialty	Number of staff	Number of staff with scientists degrees	% degree
5B011200 - Chemistry	41	15	37
6M060600 - Chemistry	37	23	62
5B011300 - Biology	56	25	45
6M011300 - Biology	19	12	63
6B05102 - Biotechnology	52	5	48

The staff of the Department of Chemistry and Biotechnology, implementing the EP 5B011200 / 6M060600 - Chemistry, 6B05102 - Biotechnology is stable (table 11).

Table 11 - Quantitative and qualitative composition of the teaching staff of the Department of Chemistry and Biotechnology

Indicators		Academic year				
		2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
The number of faculty	Total	14	17	17	23	28
	including full-time	10	11	11	14	19
From among full-time teachers	Doctors of Science	-	-	-	-	-
	associate professors	3	3	3	3	3
	Professor	-	-	1	1	1
	candidates of sciences	6	7	5	6	6
	Phd	-	1	1	1	1
	Masters	4	5	5	8	9
	steadiness	60	63.6	54.5	50	36.8

The staff that implements EP 5B011300 / 6M011300 - Biology is quite stable (table 12).

Table 12 - Quantitative and qualitative composition of the faculty of the Department of Biology and MT

Indicators		Academic year				
		2013-2014	2014-2015	2015-2016	2016-2017	2017-2018
The number of faculty	Total	16	12	14	17	18
	including full-time	12	12	14	16	17
From among full-time teachers	Doctors of Science	-	1	1	1	-
	associate professors	2	4	4	4	4
	candidates of sciences	7	1	1	1	1
	Phd	-	-	-	-	2
	Masters	4	5	7	9	9
	steadiness	58	50	42.8	37.5	41.17

The training of modern specialists is carried out by an experienced teaching staff: candidates of sciences, teachers with a large pedagogical experience, the total number in the academic year 2018-2019 is 16 people at the Department of Chemistry and Biotechnology, including 38.8% with academic degrees and ranks ( 6 candidates of sciences, 1 PhD, 11 masters of pedagogical and natural sciences) (table 1 3 ).

Table 1 3 - the Staff of the faculty of the Department of chemistry and biotechnology for the 2018-2019 academic year

No.	FULL NAME.	Position	Academic degree
State.			
1.	Nurmukhanbetova Nurgul Nurkenovna	Head of Department , Associate Professor	c.ch.s
2.	Hamitova Aina Sultanseitovna	assistant professor	c.ch.s
3.	Seilkhanov Tolegen Muratovich	assistant professor	c.ch.s
4.	Sergazina Samal Mubarako VNA	assistant professor	c.ch.s
5.	Loskutova Galina Andreevna	assistant professor	c.ch.s

6.	Kazyakhmetova Dana Tursynbaevna	Senior Lecturer	c.ch.s
7.	Kassenova Nazira Bazarbaevna	Senior Lecturer	Phd
8.	Tleuova Zere Sharipovna	Senior Lecturer	-
9.	Kairnasova Zhanargul Zeynullinovna	Senior Lecturer	master
10.	Suleimenova Diana Adilkhanovna	Senior Lecturer	master
11.	Bayarbolat Rina	Senior Lecturer	master
12.	Eskendirova Aziza Aybekovna	teacher	master
13.	Evloeva Nava Sultanovna	teacher	master
14.	Zhaksybay Aigerim Galymovna	teacher	master
15.	Temirbekova Nurgul Gelmanovna	Senior Lecturer	master
16.	Әліп Айттолқын	teacher	master
17.	Ergalieva Aizhan Serikovna	teacher	master
18.	Turcan Evgenia	teacher	master
Part-timers			
1.	Erkasov Rakhmetolla Sharapidenovich	Professor	Doctor of Chemistry
2.	Pyatov Evgeny Aleksandrovich	Senior Lecturer	-
3.	Aimakov Orazkhan Aymakovich	Professor	Doctor of Chemistry
4.	Eslyamova Umit Batyrbekovna	teacher	master
5.	Kazkenova Gulmira Tokaevna	teacher	-
6.	Balkibekova Gulmira Pazyltaevna	teacher	-
7.	Zhusupbekova Anar Kaparovna	teacher	-
8.	Zhirnova Julia Vladimirovna	teacher	master

Training of modern professionals provides experienced faculty staff: doctors and candidates of sciences, professors who have extensive teaching experience, the total number of staff of the department of biology and the MP 201 8 -201 9 academic year is 17 people, including academic degrees and titles 41 , 1 % (5 candidates of sciences, 2 doctors of PhD , 9 masters of pedagogical and natural sciences), the average age of teaching staff is 41.6.

The staff of the Department of Biology and Teaching Techniques that implements the implementation is stable (table 14) .

Table 1 4 - the Staff of the faculty of the Department of Biology and MT for the 2018-2019 academic year

No.	Full name	Position	Academic degree
State			
1.	Durmekbaeva Shynar Nurlybekovna	Head of the department , acting professor	c.b.s
2.	Safronova Natalya Mikhailovna	assistant professor	c.b.s
3.	Smailova Gulsara Tauzhanovna	assistant professor	c.b.s

4.	Zhumabaeva Sara Erkinovna	assistant professor	c.b.s
5.	OnerkhanGulzhayna	Senior Lecturer	c.b.s
6.	Babenko Olga Nikolaevna	Senior Lecturer	Dr. PhD
7.	Akhmetova Nurgul Pernebeksyzy	Senior Lecturer	Dr. PhD
8.	Sokova Orynbasar Turgunovna	Senior Lecturer	
9.	Gibadilova Aizhan Meiramovna	Senior Lecturer	master
10.	Zhumabaeva AigulAyazbaevna	Senior Lecturer	master
11.	Hamitova Gulnar Zhumabekovna	Senior Lecturer	master
12.	Maimakova Diana Bayzollaevna	Teacher	master
13.	Boken Tursinggul Saylaubaykyzy	Teacher	master
14.	Sharipov Bolat Orynbaevich	Teacher	master
15.	Noyan Zhantas Zhanbolatuly	Teacher	master
16.	Suraganova Aizhan Maratovna	Teacher	master
17.	Iglikova Meiramgul Esmagulovna	Teacher	master
Part-timers			
one	Aidosova Saule Sagidullaevna	Professor	Doctor of Biological Sciences

In the framework of the EP Biology, the teaching of the main disciplines of the pedagogical direction at the department is carried out by a biology teacher of the highest category of IT - school - Lyceum Koshanova AB (work experience as a biology teacher at school for 10 years). She teaches disciplines "Methodology of teaching biology."

Teachers of the department annually take various advanced training courses. All teachers, upon admission to work, study job descriptions, as evidenced by sheets of familiarization with the signatures of teachers. Employment and distribution of duties is carried out in accordance with clearly defined qualification requirements of the university. The university has an effective functioning of such personnel management mechanisms as motivation, i.e. provisions have been developed for setting the annual allowance for the basic salary, which materially motivates the employee: Regulation for establishing allowances for faculty; Regulation on the system of material incentives for faculty.

Personnel potential reflects the preparedness of teachers to perform their functions, both at the moment, and their ability to carry out pedagogical activities in the long term, taking into account age, scientific and pedagogical qualifications, practical experience, business activity, and quality of activity. In the presence of vacant posts, a competition is announced, the procedure of which is described above, to which interested persons who have the corresponding basic education are applying. A talent pool is also created from graduate students.

The need of EP in full-time employees is determined based on the total academic load for each academic year, and depends on the contingent of students at the levels of educational programs. In this case, teachers with a scientific degree of a doctor or candidate of science are primarily involved in teaching at the master's degree program. The results of research are published in domestic and foreign journals, reported at scientific and practical conferences. Particularly noteworthy is the teacher Seilkhanova T.M., who has articles in highly rated magazines. In addition, he is the best university teacher in 2018 [http://edu.gov.kz/m/news/detail.php?ELEMENT\\_ID=11522](http://edu.gov.kz/m/news/detail.php?ELEMENT_ID=11522) .

### ***Analytical part***

According to the analysis in the context of the standard "faculty" the commission came to the conclusion that KSU them. Sh. Ualikhanova has an objective and transparent personnel policy. The



personnel potential of accredited EPs corresponds to the university strategy, qualification requirements, level and specifics of educational programs. The university management pays great attention to the development of personnel potential and the training of its own graduate personnel from among its graduates and young teachers.

The teaching staff of the department takes an active part in the life of the region, as well as is engaged in research activities. The results of the faculty survey showed that 92 respondents (93.6% of the respondents) believe that the university is very good and provides an opportunity for the continuous development of faculty staff. On all questions of the questionnaire, faculty gave a positive assessment of the university.

It should also be noted the insufficient development of academic mobility of teaching staff in the framework of the EP, and the lack of attracting the best foreign teachers, which requires further development in this direction.

Analyzing the OP for filling the standard " *Faculty* " in accredited areas, the commission notes:

***Strengths / Best Practices***

1) The leadership of the EP demonstrates the changing role of the teacher in connection with the transition to student-centered learning.

2) The management of the educational institution attracts practitioners from relevant industries to teach.

3) An important factor is the involvement of teaching staff in public life (the role of teaching staff in the educational system, in the development of science, the region, the creation of a cultural environment, participation in exhibitions, creative contests, charity programs, etc.).

*The weakness of the EP is :*

1) An important factor is the development of academic mobility within the framework of EP, attracting the best foreign and domestic teachers.

**The Commission recommends :**

- actively apply information and communication technologies (for example, on-line training, e-portfolio, MEP, etc.) in the educational process, including licensed software in the field of geographic information systems.

- increase the number of teaching staff traveling on academic mobility programs by 15% .

***The conclusions of the EEC according to the criteria: According to the Standard " Teaching staff and the effectiveness of teaching " accredited educational programs have 3 strong, 8 satisfactory positions and 1 implies improvement.***

**6.8. Standard "Educational Resources and Student Support Systems"**

***Evidence part***

KSU named after S. Ualikhanov has 4 educational buildings, 2 dormitories, 3 houses of students, a house of scientists, 2 fitness centers.

The structure of the library complex includes 2 subscriptions, 6 reading rooms for 315 seats, 2 electronic reading rooms equipped with computers that are connected to the local network and have Internet access.

In the Zerendinsky resort zone (Akmola region, village of Zerenda) there is a sports and recreation camp "Tulpar", which belongs to KSU named after Sh. Ualikhanova.

To ensure high-quality nutrition in educational buildings and dormitories there is a student nutrition center, canteens and buffets.

In order to create favorable conditions for improving the life of students and university teachers, a bath and laundry complex was opened.

To organize free medical care at the university, there are 4 medical centers and the multidisciplinary medical and health complex "Arasan". The university has an editorial and publishing department.

The university is sufficiently equipped with an educational and laboratory base, modern technology in classrooms, lecture halls and in all departments of the university.

To solve the housing problem of invited teachers, a 26-apartment House of Scientists was opened. In order to develop practical skills among agricultural specialties in the Konysbai rural district of the Zerendinsky district, the Elit training and research and production complex operates, where a semi-detached house is built and the livestock base is repaired. For the effective functioning of the complex, a hangar for storing equipment was purchased (Yenisei combines, MTZ-952 tractors, sprayers, grain throwers, seeders, mowers).

To ensure the appropriate level of safety and security of tangible assets, the university is equipped with a video surveillance system including 236 cameras and an access control system (ACS).

General requirements for the educational and scientific material and technical base of the university are regulated by the Regulation on the certification of classrooms (laboratories) of KSU named after Sh. Ualikhanov (approved. January 16, 2013).

The scientific library has ten databases of electronic resources, which are provided with round-the-clock access, and also have access to bibliographic records of the entire book fund through its own server and server technologies. To provide electronic versions of published journals, the library has a subscription to the portals polpred.com and English-language springerlink.com.

The acquisition and distribution of material resources is regulated by the Regulation on the formation and distribution of material resources (approved on November 18, 2014). The allocation of resources is carried out in accordance with the plan for the acquisition of material resources, approved at the beginning of each calendar year. The plan for the acquisition of material resources is compiled on the basis of applications from structural units and the financial condition of the university. The use of financial and material resources is discussed annually at meetings of the Academic Council of the University, where, in accordance with the work plan of the CSS, the chief accountant makes a report.

Periodicals and documents are acquired by the library in accordance with the needs of departments and structural units of the university. The security of the disciplines of the specialty curriculum with a fund of educational, methodological and scientific literature on electronic and magnetic media is sufficient.

Cases were created for students studying on distance learning technology on the WEB site of the automated system "PLATONUS", which reflects all the educational materials. The university has a laboratory for the engineering profile of NMR spectroscopy, which is focused on studying the composition and structure of chemical compounds, the kinetics of physical and chemical processes using NMR spectroscopy. In this laboratory there are equipment such as, JNM-ECA 400 - a nuclear magnetic resonance spectrometer, a gas chromatograph Bruker 430-GC, UV-spectrophotometer SF-56. Students and teachers of the Department of Chemistry and Biotechnology have the opportunity to work in the laboratory of NMR spectroscopy, namely to carry out research activities.

The supply of educational, teaching and scientific literature with respect to 1 student is: 2014-2015 academic year - 93.5 units in the Kazakh language, 238.3 units in Russian; 2015-2016 academic year - 113.5 units in the Kazakh language, 220.5 units in the Russian language; 2016-2017 academic year - 92.5 units in the Kazakh language; 317.2 units in Russian; 2017-2018 academic year - 92.5 units in the Kazakh language, 317.5 units in the Russian language; 2018-2019 academic year - 80.2 units in the Kazakh language, 215.5 units in Russian.

Laboratory of Organic (802) and Bioorganic Chemistry (810) is designed to deepen and consolidate the theoretical and practical material of the course "Organic and Bioorganic Chemistry". The research laboratory (812) is intended for research work of students and undergraduates in the specialties Chemistry, 6M060600-Chemistry, Biotechnology. The laboratory of chemistry teaching methods (807) is intended for conducting classes in the following areas of chemistry teaching methods, a school chemical experiment, methods for using various types of chemical tasks in a lesson, chemistry teaching aids, and safety procedures for working in chemistry. Laboratory of analytical chemistry (805) is intended for conducting classes in the disciplines of analytical chemistry (qualitative analysis) and (quantitative analysis). Specialty 5V011300 - Biology classroom equipped with the necessary foundation, educational laboratories, computer classes, methodical study, gyms, including: at chebnyh

audiences in all 13, of which: 2 lecture halls (# 720 lecture hall named after Professor Temirbekova ZT - 46 seats, 68.9 sq.m., No. 721 - 34 seats, 50.9 sq.m), 3 offices (No. 708, No. 712, No. 718, No. 725). The office of the head of the department (No. 716); teaching (No. 714), glass warehouse (No. 723), one laboratory for laboratory assistants (No. 715). At the department used iologii and MP 3 are "Botanica" laboratories, "Plant Physiology", "Biology".

These educational laboratories occupy a special place in the development of practical skills of students and undergraduates of accredited EP.

The specialized audience of the department is equipped with the following visual and illustrative materials necessary for the educational process: the human anatomy room (room 712) is equipped with a stationary bike, floor scales, height meter, dynamometers, modern blood pressure monitors, a device for determining astigmatism, to determine the field of view and a table for determining acuity view, there is a TV in a complex with a computer.

The Biological Museum of the Department of Biology and Teaching Methods was opened on April 14, 2011 as an educational museum at KSU named after Sh. Ualikhanov. The basis for the creation of the Biological Museum was the training collections of the Department of Biology and teaching methods.

Educational materials, software, educational literature are available to all students. The supply of educational literature in the academic year 2018-2019 in the specialty "Biology" of the main fund of the library is 25125 copies: in the Kazakh language - 5437, in Russian - 11556, in English - 8132. Including: educational literature: of which in Kazakh. ide - 2962, in Russian - 9320, in English - 5355; scientific literature: 1190 of them in Kazakh language, 826 in Russian language; in English - 11837, of educational-methodical literature: from them in Kazakh language - 1285, in Russian language - 1410, in English - 1594 copies.

On April 8, 2019, the branch of the departments "Plant Growing and Soil Science", "Biology and Teaching Methods" and "Geography, Ecology and Tourism" of the KSU named after Sh.Ualikhanov on the basis of the State Scientific and Production Enterprise "Burabay" was opened, which facilitates the organization and conduct of educational and scientific -methodical work on academic disciplines and practices of students accredited by the EP.

### ***Analytical part***

All theses, teaching materials of the teaching staff subject to publication or publication are tested to prevent plagiarism "Anti-plagiarism".

University buildings and facilities comply with current sanitary standards and fire safety requirements.

According to the results of the questionnaire of students, 84.5% were fully satisfied with the support of educational materials in the learning process, 12.1% were partially satisfied; 70.7% are fully satisfied, 27.6% are partially satisfied with the availability of library resources; 82.8% fully satisfied and 13, 8% partially satisfied training rooms, classrooms for large groups; 87.1% are fully satisfied and 10.3% are partially satisfied with the proportionality of classrooms for small groups; 73.3% are fully satisfied and 19.8% are providing hostel.

Analyzing the EP on filling the standard " *Educational resources and student support systems* " in accredited areas, the commission notes:

### ***Strengths / Best Practices***

1) EP management demonstrates the existence of support procedures for various groups of students, including information and counseling.

2) EP management demonstrates the correspondence of information resources to the specifics of the EP, including the following: library resources, including a fund of educational, methodological and scientific literature on general education, basic and majors in paper and electronic media, periodicals, access to scientific databases;

3) Provided access to educational Internet resources

4) The university seeks to take into account the needs of various groups of students in the context of EP (adults, workers, foreign students, as well as students with disabilities).

**The Commission recommends :**

- expand the coverage of wi - fi .
- carry out work to strengthen and update the material and technical base of accredited EPs.

***Conclusions of the EEC on the criteria: According to the Standard “ Educational Resources and Student Support Systems ”, accredited educational programs have 4 strong and 5 satisfactory positions , and improvement is required by 1 criterion.***

**6.9. Public Awareness Standard**

***Evidence part***

KSU named after s. Ualikhanov is a regional university, therefore the question of image and information about the activities of the university is very actual, following the principles of openness and accessibility to the public, the university openly publishes full and reliable information on the duration of studies, university attendance, and university attendance , the advantages of the university and each faculty, contact and other useful for applicants and students.

The university annually holds a competition of student scientific papers, scientific and practical conferences of students within the framework of the "Student Science Week", where mechanisms for stimulating the research work of students and their supervisors are improved.

EP management analyzes the needs of the educational services market. Annually, graduate fairs are organized in the city and the university, negotiations are being held with the heads of schools, colleges, the Kokshetau City Department of Education and the Akmola Region Department of Education, the Akmola Region Department of Ecology, on the subject of graduate employment. The analysis of the forecast of the region’s needs for specialists with higher education for the next five years and the consistently high employment of graduates (90% or more) indicate the need to continue training specialists in biology, chemistry and biotechnology. This allows you to effectively and efficiently use the available resources: human resources, material and technical base, information resources, established partnerships with the above organizations.

Through online resources, you can constantly monitor the success of the student. Parents can track student progress at any time with an identical student code.

Along with this, KSU carries out active advertising and image-related work, organizing career-oriented, marketing campaigns, PR-campaigns in the media, scientific and practical conferences and seminars, Open House Days, during which the public can get acquainted with the activities of the university. At the university, a student service center at KSU named after Sh. Ualikhanov.

The university’s information system is information resources provided with the means and technologies of access, storage, processing, accumulation and updating of information. The electronic information system is presented in the form of educational and scientific databases, electronic libraries, educational tools on electronic media, computer equipment and software, and a corporate telecommunications network.

For quick and effective access to internal and external information resources, the university has created an unlimited high-speed data channel between university departments. In order to increase the number of users of the local network and the Internet among employees and students, measures were taken to introduce wireless access technologies (WiFi) to the university network.

***Analytical part***

In all accredited educational programs of undergraduate and graduate programs, a competency-based approach is implemented, which provides for the wide use in the educational process of interactive forms of conducting classes in combination with extracurricular work with the aim of forming and developing students' professional skills.

Information about the activities of the university is reflected on the site, but, as shown by a control visit to the site, the information is presented at an insufficient level in three languages (Kazakh, Russian, English).

A survey of students carried out during the visit of the Higher Attestation Commission of the IAAR showed that satisfaction with the students' knowledge of the courses, academic degrees of academic degrees are completely satisfied - 87.1 % are fully satisfied, partially satisfied - 10.3% of the students.

### ***Strengths / Best Practices***

- 1) The information published by the university in the framework of the EP is accurate, objective, relevant and includes information about the employment opportunities of graduates.
- 2) EP management uses a variety of methods of disseminating information (including media, web resources, information networks, etc.) to inform the general public and interested parties.
- 3) The university demonstrates the reflection on the web resource of information characterizing the university as a whole and in the context of EP.
- 4) The university posts information and links to external resources based on the results of external evaluation procedures.
- 5) An important factor is the participation of the university and implemented EPs in various external assessment procedures.

### **The Commission recommends :**

- to ensure timely updating of information on faculty in the context of the EP on the university portal.
- ensure the publication of financial statements on the university website.
- optimize the structure of the university website for the convenience of finding the necessary information.

***The conclusions of the EEC on the criteria: According to the Standard " Public Awareness " accredited educational programs have 5 strong, 7 satisfactory positions, and improvement is required by 1 criterion .***

## ***6.10. Standard "Standards in the context of individual specialties" Education***

### ***Evidence part***

In the direction of "Education" includes the EP "5B011200 / 6B01504-Chemistry", "6M060600 / 7M05301-Chemistry", "5B011300 / 6B01514-Biology" and "6M011300 / 7M01504-Biology" .

The development and management of educational programs 5B011300 - "Biology", is carried out on the basis of the State Education Development Program of the Republic of Kazakhstan for 2011-2020, the National Qualifications Framework (Approved by the protocol of March 16, 2016 by the Republican tripartite commission for social partnership and regulation of social and labor relations) ; Professional standard "Teacher" (to the order of the Chairman of the Board of the National Chamber of Entrepreneurs of the Republic of Kazakhstan "Atameken" No. 133 dated June 8, 2017); GOSO of the Republic of Kazakhstan No. 292 dated May 13, 2016; Specialty TUP, order of the Ministry of Education and Science of the Republic of Kazakhstan No. 425 dated July 5, 2016 and by Dublin descriptors agreed with the European qualification framework.

The educational program "6M011300 - Biology" is carried out on the basis of the order of the Ministry of Education and Science of the Republic of Kazakhstan No. 425 of July 5, 2016 and TUP; Classifier of specialties of higher and postgraduate education of the Republic of Kazakhstan; individual work plan of the undergraduate; other documents approved in the prescribed manner. In the magistracy, training in the specialty 6M011300 "Biology" is carried out in the areas of profile and scientific and pedagogical.

EP "6M060600-Chemistry" is developed on the basis of the State Educational Standard of the Republic of Kazakhstan Postgraduate education. Master and according to the requirements for the content of education, the volume of the academic load and the level of training of masters of natural sciences in the specialty 6M060600 - Chemistry. The educational program "Teaching Chemistry in English" offers a new approach to the formation of key competencies required by a graduate of the specialty 6M060600 - Chemistry with a specialization in "Natural Sciences".

In the framework of the EP Biology, the teaching of the main disciplines of the pedagogical direction at the department (discipline "Methodology of Teaching Biology" in the amount of 56 hours) is carried out by a specialist from the organization (secondary school), a biology teacher of the highest category IT - school-lyceum AB Koshanova, which has Work experience as a biology teacher at school for 10 years.

In the course of the work, the commission ascertained the sufficiency of the material and technical base for supporting the educational process of educational programs and the implementation of the mission, goals and objectives. The University has the necessary classroom fund, its own hostels, computer labs, equipped with modern equipment laboratories and practice bases, sports halls, which are equipped in accordance with the objectives of the educational programs of the University. The university has specialized audiences. Educational materials, software, educational literature are available to all students.

To support the educational process and to train highly qualified personnel, the university has a library fund, there is an automated library information system.

The content of educational programs is focused on credit technology of education. EP interdisciplinary orientation, focus on practice. The main modules of EP are developed on the basis of an analysis of market needs, development trends of world science.

### **Analytical part**

Analyzing the study program for filling the standard "Standards in the context of individual specialties" in accredited areas, the commission notes the availability of modern and relevant data on educational programs for teaching staff and students; University website availability; free access to educational Internet resources, free Wi-Fi; providing students with educational and methodological publications through the use of an electronic library.

The accredited specialties' EP includes basic and practice-oriented disciplines for students to gain practical experience and skills in their specialty in the conditions of updating education in Kazakhstan.

When implementing the EP, much attention is paid to the organization and conduct of teaching practice, which begins with the first year. During pedagogical practice, students attend classes of experienced teachers, practical scientists, conduct their classes under the supervision of mentors using new teaching methods and technologies. They also take part in ongoing methodological events, seminars, meetings, etc.

Questioning of students showed that 90.5% of students were satisfied, and 7.8% were partially satisfied with the quality of teaching. Thus, the overall satisfaction with the educational process is 98.3%.

Analyzing the EP on filling the standard "Standards in the context of individual specialties" Education in accredited areas, the commission notes:

### **Strengths / Best Practices**

1) Within the framework of the EP, emphasis is placed on various types of practices:

- attending lectures and classes conducted by teachers;
- Conducting special seminars and discussions on the latest teaching methodologies and technologies;
- Within the framework of the program, students have the opportunity to listen to at least one discipline in the field of their specialization taught by a practicing specialist.

### **The Commission recommends:**

- ensure the presence in the disciplines of the teaching of innovative teaching methods and training planning, including interactive teaching methods, teaching methods with high involvement and motivation of students (games, case studies / situations, the use of multimedia tools).

### ***EEC findings on criteria***

***The EEC notes that according to this standard, "Standards in the context of individual specialties," Education in the context of all the OP universities has 1 strong and 5 satisfactory positions.***

## **6.11 Standard "Standards in the context of individual specialties"**

### **"Natural Sciences, Agricultural Sciences, Engineering, and Technology"**

#### **Evidence part**

In the direction " Natural sciences, agricultural sciences, technical sciences, and technologies " refers to EP 5B070100 - "Biotechnology".

The educational program "5B070100 -" Biotechnology "ensures the implementation of the state educational standard taking into account the type of higher education institution, educational needs and requests of students, and includes a curriculum, work programs of training courses, subjects, disciplines (modules) and other materials that ensure quality training of students, as well as training and practical training programs, a calendar curriculum and teaching materials that ensure the implementation of the appropriate educational advanced technology.

The purpose of the educational program 5B070100-Biotechnology is to prepare bachelors of technical sciences with the formation of basic professional competencies, the creation of prerequisites for independent search and research activities of students in the framework of the experiment at all its stages, the ability to work with scientific and technical information, use domestic and foreign experience in professional activities, systematize and summarize the information received.

The goal of the educational program is in the interests of consumers of educational services and adequately provide the expected level of vocational training for graduates. EP provides opportunities for periodically updating the content of programs, building individual educational trajectories. The description of the preparation results is detailed and allows to diagnose their achievement. The amount of time allotted for the development of programs and their components is sufficient to obtain the declared results. The form and content of monitoring the results of mastering programs are close to the conditions of professional activity and allow you to evaluate the preparedness of students for solving professional problems.

EP management analyzes the needs of the educational services market. Every year, graduate fairs are organized in the city and the university, negotiations are held with the heads of schools, colleges, the Kokshetau City Department of Education and the Akmola Region Department of Education, the Akmola Region Department of Ecology, Kokshetau Minvody JSC, Baltic Control Kazakhstan LLP, LLP Gormolzavod ", LLP" Milk project ", LLP" Novopek "on the subject of employment of graduates.

#### **Analytical part**

Analyzing the study program for filling the standard "Standards in the context of individual specialties" in accredited areas, the commission notes the availability of modern and relevant data on educational programs for teaching staff and students; conditions have been created for fulfilling the educational standards of higher education; high competence of teachers - practitioners serving EP.

The content of all disciplines of EP is based and includes a clear relationship with the content of fundamental natural sciences. Questioning of students showed that 90.5% of students were satisfied, and 7.8% were partially satisfied with the quality of teaching . Thus, the overall satisfaction with the educational process is 98,3 %.

#### **The Commission recommends:**

- to provide the opportunity to choose the educational trajectory of students by increasing the number of relevant educational trajectories in the EP "5B070100 / 6B05102 - Biotechnology", reflecting modern problems and achievements of both science and practice.

#### **EEC findings on criteria**

**The EEC notes that according to the standard "Standards in the context of individual specialties" Natural Sciences, Agricultural Sciences, Technical Sciences, and Technology 5 criteria have a satisfactory position.**

## **( VII ) OVERVIEW OF STRENGTHS / BEST PRACTICE BY EACH STANDARD**

### **Standard "Management of the educational program"**

- 1) The quality assurance policy reflects the link between research, teaching and learning
- 2) Manual EP ensures the transparency of the development plan for the development of EP based on an analysis of its functioning, the real position of the university and the orientation of its activities to meet the needs of the state, employers, stakeholders and students.
- 3) EP management attracts representatives of stakeholder groups, including employers, students and faculty members, to formulate the EP development plan .
- 4) The EP leadership demonstrates the individuality and uniqueness of the EP development plan , its consistency with national development priorities and the development strategy of the educational organization.
- 5) EP management provides evidence of the transparency of the educational program management system.
- 6) The EP management demonstrates the successful functioning of the internal quality assurance system of the EP, including its design, management and monitoring, their improvement, and decision-making based on facts.
- 7) EP management ensures the participation of representatives of interested parties (employers, teaching staff, students) in the collegial bodies of the educational program management, as well as their representativeness in making decisions on educational program management.

### **Standard "Information Management and Reporting"**

- 1) An important factor is the involvement of students, employees and teaching staff in the processes of collecting and analyzing information, as well as making decisions based on them;
- 2) The university provides a measure of the degree of satisfaction of the needs of faculty, staff and students in the framework of EP and demonstrates evidence of the elimination of discovered deficiencies;
- 3) the dynamics of the contingent of students in the context of forms and types.
- 4) level of academic achievement, student achievement and expulsion
- 5) student satisfaction with the implementation of the academic program and the quality of education at the university;
- 6) the availability of educational resources and support systems for students;
- 7) employment and career growth of graduates.
- 8) Students, employees and teaching staff document their consent to the processing of personal data.

### **Standard "Development and approval of educational programs"**

- 1) The university determines and documents the procedures for the development of EP and their approval at the institutional level.
- 2) EP management ensures compliance of developed EP with established goals, including expected learning outcomes.
- 3) The management of the EP ensures the availability of developed models of the graduate of the EP that describe the learning outcomes and personal qualities.
- 4) EP management determines the impact of disciplines and professional practices on the formation of learning outcomes.
- 5) EP management provides evidence of the participation of students, faculty and other stakeholders in the development of EP, ensuring their quality.
- 6) The structure of the EP provides for various activities corresponding to the learning outcomes.

### **Standard "Continuous monitoring and periodic evaluation of educational programs"**

- 1) Monitoring and periodic assessment of EP consider changes in the needs of society and the professional environment;



2) Monitoring and periodic assessment of EPs consider the expectations, needs and satisfaction of students with training in EP.

3) The university and the EP management provide evidence of the participation of students, employers and other stakeholders in the revision of the EP.

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

#### **Standard "Student-centered Learning, Teaching and Assessment"**

1) EP management provides respect and attention to various groups of students and their needs, providing them with flexible learning paths.

2) EP management provides the use of various forms and methods of teaching and learning.

3) The leadership of the EP demonstrates support for the autonomy of students with simultaneous guidance and assistance from the teacher.

4) EP management demonstrates the existence of a procedure for responding to student complaints.

5) The university ensures the consistency, transparency and objectivity of the mechanism for assessing learning outcomes for each EP, including the appeal.

#### **Standard "Learners"**

1) The EP leadership demonstrates the implementation of special adaptation and support programs for newly arrived and foreign students.

2) The EP management makes the maximum amount of effort to provide students with places of practice, to facilitate the employment of graduates, and to maintain contact with them.

3) The university provides graduates of EP with documents confirming the qualifications obtained, including the results of training, as well as the context, content and status of the education and evidence of completion.

4) An important factor is monitoring the employment and professional activities of graduates of EP.

#### **Standard "Faculty"**

1) The leadership of the EP demonstrates the changing role of the teacher in connection with the transition to student-centered learning.

2) The management of the educational institution attracts practitioners from relevant industries to teach.

3) An important factor is the involvement of teaching staff in public life (the role of teaching staff in the educational system, in the development of science, the region, the creation of a cultural environment, participation in exhibitions, creative contests, charity programs, etc.).

#### **Standard "Educational Resources and Student Support Systems"**

1) EP management demonstrates the existence of support procedures for various groups of students, including information and counseling.

2) EP management demonstrates the correspondence of information resources to the specifics of the EP, including the following: library resources, including a fund of educational, methodological and scientific literature on general education, basic and majors in paper and electronic media, periodicals, access to scientific databases ;

3) Provided access to educational Internet resources

4) The university seeks to take into account the needs of various groups of students in the context of EP (adults, workers, foreign students, as well as students with disabilities).

#### **Public Awareness Standard**

- 1) The information published by the university in the framework of the EP is accurate, objective, relevant and includes information about the employment opportunities of graduates.
- 2) EP management uses a variety of methods of disseminating information (including media, web resources, information networks, etc.) to inform the general public and interested parties.
- 3) The university demonstrates the reflection on the web resource of information characterizing the university as a whole and in the context of EP.
- 4) The university posts information and links to external resources based on the results of external evaluation procedures.
- 5) An important factor is the participation of the university and implemented EPs in various external assessment procedures.

**Standards in the context of individual specialties. "Education".**

- 1) Within the framework of the EP, emphasis is placed on various types of practices:
  - attending lectures and classes conducted by teachers;
  - Conducting special seminars and discussions on the latest teaching methodologies and technologies;
  - within the framework of the program, students have the opportunity to listen to at least one discipline in the field of their specialization taught by a practicing specialist;



## (VIII) REVIEW OF QUALITY IMPROVEMENT RECOMMENDATIONS

### **Standard "Management of the educational program"**

- ensure the availability on the university website of documents such as: a code of honor for teachers and staff of KSU named after S. Ualikhanov; academic honesty policy Sh. Ualikhanov;
- to continue work on the development of double-degree education and to develop joint educational programs in the areas of accredited educational programs.
- expand international cooperation with universities partners.
- translate and publish the quality policy of the university in English
- draw attention to the necessity of passing the heads of OP refresher courses on management education programs.

### **Standard "Information Management and Reporting"**

- timely update the content (content) of the website and the educational portal of the university, especially in the field of international cooperation and international educational programs.

### **Standard "Development and approval of educational programs"**

- complete the development of joint educational programs with foreign educational organizations in the areas of accredited educational programs.
- increase the number of educational trajectories in the EP "5B070100 / 6B05102 - Biotechnology".

### **Standard "Continuous monitoring and periodic evaluation of educational programs"**

- timely publish all changes made to the EP.

### **Standard "Student-centered Learning, Teaching and Assessment"**

- include the formula for calculating performance with the weight fractions of the final control, admission rating and current performance in the description of the OP.

### **Standard "Learners"**

- the leadership of the university and the EP to take measures to participate in the Erasmus program for students and faculty of the university, as well as the development of joint EP through the Erasmus + Capacity Building program.
- bring the regulatory document governing the organization of academic mobility of students at a university in accordance with amendments to the legislation of the Republic of Kazakhstan on education and the Lisbon Convention on Recognition.
- the leadership of the university and academic staff to expand the geography and increase the number of students traveling by academic mobility to English-speaking countries in order to develop the existing multilingual potential of students.

### **Standard "Faculty"**

- actively apply information and communication technologies (for example, on-line training, e-portfolio, MEP, etc.) in the educational process , including licensed software in the field of geographic information systems.
- increase the number of faculty members traveling under programs of academic mobility by 15% .

### **Standard "Educational Resources and Student Support Systems"**

- expand the coverage of wi - fi .
- carry out work to strengthen and update the material and technical base of accredited EPs.

### **Public Awareness Standard**

- to ensure timely updating of information on faculty in the context of the OP on the university portal.
- ensure the publication of financial statements on the university website.
- optimize the structure of the university website for the convenience of finding the necessary information.

### **Standards in the context of individual specialties "Education"**

- ensure the presence in the disciplines of the teaching of innovative teaching methods and training planning, including interactive teaching methods, teaching methods with high involvement and motivation of students (games, case studies / situations, the use of multimedia tools).

## Standards in the context of individual specialties "Natural Sciences, Agricultural Sciences, Engineering, and Technology "

- to provide the opportunity to choose the educational trajectory of students by increasing the number of relevant educational trajectories in the EP "5B070100 / 6B05102 - Biotechnology", reflecting modern problems and achievements of both science and practice.

### Custom Profile Options

**5B011200 / 6B01504 - Chemistry, 6M060600 / 7M05301 - Chemistry, 5B011300 / 6B01514 - Biology, 6M011300 / 7M01504 - Biology**

No. p \ p	No. n \ n	Criteria for evaluation	Education Organization Position			
			Strong	Satisfactory	Suggests improvement	Unsatisfactory
<b>Standard " Management of the educational program "</b>						
1	1.	The university must have a published quality assurance policy .		+		
2	2.	Quality assurance policies should reflect the link between research, teaching and learning .	+			
3	3.	The university should demonstrate the development of a culture of quality assurance, including in the context of EP.		+		
4.	4.	A commitment to quality assurance should apply to any activity carried out by contractors and partners (outsourcing), including in the implementation of joint / double degree education and academic mobility.		+		
5	5.	Manual OP ensures the transparency of the development plan for the development of OP based on an analysis of its functioning, the real position of the university and the orientation of its activities to meet the needs of the state, employers, stakeholders and students.	+			
6	6.	EP management demonstrates the functioning of the mechanisms for forming and regularly reviewing the EP development plan and monitoring its implementation, assessing the achievement of learning goals, meeting the needs of students, employers and society, making decisions aimed at continual improvement of EP.		+		
7	7.	EP management should involve representatives of stakeholder groups, including employers, students and faculty members, in the formation of the EP development plan .	+			
8	8.	EP management must demonstrate the individuality and uniqueness of the EP development plan , its consistency with national development priorities and the development strategy of the educational organization.	+			
9	9.	The university should demonstrate a clear definition of those responsible for business processes within the framework of the EP, an unambiguous distribution of the duties of the staff, and delimitation of the functions of		+		

		collegial bodies.				
10	10.	EP management must provide evidence of the transparency of the educational program management system.	+			
11	11.	EP management must demonstrate the successful functioning of the internal quality assurance system of the EP, including its design, management and monitoring, their improvement, and decision-making based on facts.	+			
12	12.	EP management must manage risk.		+		
13	13.	EP management should ensure the participation of representatives of interested parties (employers, teaching staff, students) in the collegial bodies of the educational program management, as well as their representativeness in making decisions on educational program management.	+			
14	14.	The university should demonstrate innovation management in the framework of the EP, including the analysis and implementation of innovative proposals.		+		
15	15.	EP management should demonstrate evidence of openness and accessibility for students, faculty, employers and other interested parties.		+		
16	16.	EP management must be trained in education management programs .			+	
17	17.	EP management should strive to ensure that progress made since the last external quality assurance procedure was taken into account in preparation for the next procedure.		+		
<b>Total standard</b>			<b>7</b>	<b>9</b>	<b>1</b>	
<b>Standard “ Information Management and Reporting ”</b>						
18	1.	The university should ensure the functioning of a system for collecting, analyzing and managing information based on the use of modern information and communication technologies and software.		+		
19	2.	EP management must demonstrate the systematic use of processed, adequate information to improve the internal quality assurance system.		+		
20	3.	Within the framework of EP, there should be a system of regular reporting, reflecting all levels of the structure, including an assessment of the effectiveness and efficiency of the departments and departments, and scientific research.		+		
21	4.	The university should establish the frequency, forms and methods of evaluating the management of EP, the activities of collegial bodies and structural divisions, senior management, and the implementation of scientific projects.		+		
22	5.	The university should demonstrate the definition of the order and ensuring the protection of information, including the definition of responsible persons for the accuracy and timeliness of the analysis of information and the provision of data.		+		

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

39	5.	The qualifications obtained upon completion of the EP must be clearly defined, explained and consistent with a certain level of NSC.		+		
40	6.	EP management should determine the impact of disciplines and professional practices on the formation of learning outcomes.	+			
41	7.	An important factor is the ability to prepare students for professional certification.		+		
42	8.	EP management must provide evidence of the participation of students, faculty and other stakeholders in the development of EP, ensuring their quality.	+			
43	9.	The complexity of the EP should be clearly defined in Kazakhstan loans and ECTS .		+		
44	10.	EP management should ensure the content of academic disciplines and learning outcomes for the level of training (bachelor's, master's, doctoral).		+		
45	11.	The structure of the EP should provide for various types of activities corresponding to the learning outcomes.	+			
46	12.	An important factor is the presence of joint educational institutions with foreign educational organizations.			+	
<b>Total standard</b>			6	5	1	
<b>Standard “ Continuous monitoring and periodic evaluation of educational programs ”</b>						
47	1.	The university should conduct monitoring and periodic assessment of the EP in order to ensure the achievement of the goal and meet the needs of students and society. The results of these processes are aimed at continuous improvement of the OP.		+		
		<i>Monitoring and periodic assessment of EP should consider:</i>				
48	2.	the content of the programs in the light of the latest achievements of science in a particular discipline; to ensure the relevance of the taught discipline;		+		
49	3.	changes in the needs of society and the professional environment;	+			
50	4.	load, academic performance and graduation of students;		+		
51	5.	the effectiveness of student assessment procedures;		+		
52	6.	students' expectations, needs, and satisfaction with learning in EP;	+			
53	7.	educational environment and support services and their compliance with the goals of the EP.		+		
54	8.	The university and the EP management must provide evidence of the participation of students, employers and other stakeholders in the revision of the EP.	+			
55	9.	All interested parties should be informed of any planned or taken actions regarding the OP. All changes made to the OP should be			+	

		published.				
56	10.	EP management should ensure that the content and structure of the EP are reviewed taking into account changes in the labor market, requirements of employers and the social request of the company.	+			
<b>Total standard</b>			4	5	1	
<b>Standard " Student-centered Learning, Teaching and Assessment "</b>						
57	1.	EP management should ensure respect and attention to various groups of students and their needs, providing them with flexible learning paths.	+			
58	2.	EP management should ensure the use of various forms and methods of teaching and learning .	+			
59	3.	An important factor is the availability of our own research in the field of teaching methods of educational disciplines of EP.		+		
60	4.	EP management should demonstrate the existence of a feedback system for the use of various teaching methods and assessment of learning outcomes.		+		
61	5.	EP management should demonstrate support for students' autonomy while guiding and assisting the teacher.	+			
62	6.	EP management should demonstrate the existence of a procedure for responding to student complaints.	+			
63	7.	The university should ensure the consistency, transparency and objectivity of the mechanism for assessing learning outcomes for each EP, including the appeal.	+			
64	8.	The university should ensure that the procedures for evaluating the learning outcomes of students of EP study are in line with the planned learning outcomes and program objectives. Evaluation criteria and methods within the framework of the EP should be published in advance.		+		
65	9.	The university should determine the mechanisms for ensuring the mastery of each learning outcome by each graduate of the study program and ensure the completeness of their formation.		+		
66	10.	Evaluators must be proficient in modern methods of assessing learning outcomes and regularly improve their skills in this area.			+	
<b>Total standard</b>			5	4	1	
<b>Standard " Learners "</b>						
67	1.	The university should demonstrate a policy for the formation of the contingent of students from admission to graduation and ensure the transparency of its procedures. Procedures governing the life cycle of students (from admission to completion) must be defined, approved, published.		+		



68	2.	EP management should demonstrate the implementation of special adaptation and support programs for newly arrived and foreign students.	+			
69	3.	The university must demonstrate the conformity of its actions to the Lisbon Recognition Convention.		+		
70	4.	The university should cooperate with other educational organizations and national centers of the European Network of National Information Centers for Academic Recognition and Mobility / National Academic Recognition Information Centers ENIC / NARIC in order to ensure comparable recognition of qualifications.			+	
71	5.	EP management should demonstrate the existence and application of a mechanism for recognizing the results of academic mobility of students, as well as the results of additional, formal and non-formal learning.		+		
72	6.	The university should provide an opportunity for external and internal mobility of students of EP, as well as assist them in obtaining external grants for training .		+		
73	7.	EP management should make every effort to provide students with places of practice, facilitate the employment of graduates, and maintain contact with them.	+			
74	8.	The university should provide graduates of the study program with documents confirming the qualifications obtained, including the results of training, as well as the context, content and status of the education and evidence of completion.	+			
75	9.	An important factor is the monitoring of employment and professional activities of graduates of EP.	+			
76	10.	EP management should actively encourage students to self-education and development outside the main program (extracurricular activities).		+		
77	11.	An important factor is the existence of an existing alumni / association.		+		
78	12.	An important factor is the availability of a support mechanism for gifted students.		+		
<b>Total standard</b>			4	7	1	
<b>Standard " Faculty "</b>						
79	1.	The university should have an objective and transparent personnel policy, including hiring, professional growth and staff development, ensuring the professional competence of the entire staff.		+		
80	2.	The university should demonstrate the compliance of the staff potential of the teaching staff with the development strategy of the university and the specifics of the academic program.		+		
81	3.	EP management should demonstrate awareness of responsibility for its employees and ensure favorable working conditions for them.		+		

82	4.	EP management should demonstrate a change in the role of the teacher in connection with the transition to student-centered learning .	+			
83	5.	The university should determine the contribution of faculty staff to the implementation of the development strategy of the university, and other strategic documents.		+		
84	6.	The university should provide opportunities for career growth and professional development of faculty staff.		+		
85	7.	EP management should involve practitioners in relevant industries in teaching .	+			
86	8.	EP management should provide targeted action to develop young teachers.		+		
87	9.	The university should demonstrate the motivation for the professional and personal development of teachers of EP, including encouraging the integration of scientific activity and education, as well as the use of innovative teaching methods.		+		
88	10.	An important factor is the active use of teaching staff of information and communication technologies in the educational process (for example, on-line training, e-portfolio, MEP, etc.).		+		
89	11.	An important factor is the development of academic mobility in the framework of EP, the involvement of the best foreign and domestic teachers .			+	
90	12.	An important factor is the involvement of teaching staff in public life (the role of teaching staff in the education system, in the development of science, the region, the creation of a cultural environment, participation in exhibitions, creative contests, charity programs, etc.).	+			
<b>Total standard</b>			3	8	1	
<b>Standard “Educational Resources and Student Support Systems”</b>						
91	1	EP management must demonstrate the adequacy of material and technical resources and infrastructure.		+		
92	2.	EP management should demonstrate the existence of support procedures for various groups of students, including information and counseling.	+			
		<i>EP management must demonstrate compliance of information resources with EP specifics, including compliance with:</i>				
93	3.	technological support for students and faculty in accordance with educational programs (for example, online training, modeling, databases, data analysis programs);		+		
94	4	library resources, including a fund of educational, methodological and scientific literature on general education, basic and majors in paper and electronic media, periodicals, access to scientific databases;	+			

95	5	Access to Educational Internet Resources	+			
96	6	examination of the results of research, final works, dissertations on plagiarism;		+		
97	7	WI-FI functioning in the territory of the educational organization.			+	
98	8	The university should strive to ensure that the educational equipment and software used to master the educational program are similar to those used in the relevant industries.		+		
99	9	The university must ensure compliance with safety requirements in the learning process.		+		
100	10	The university should strive to take into account the needs of various groups of students in the context of EP (adults, workers, foreign students, as well as students with disabilities).	+			
<b>Total standard</b>			4	5	1	
<b>Public Awareness Standard</b>						
		<i>Information published by the university within the framework of the EP should be accurate, objective, relevant and should include:</i>				
101	1.	ongoing programs indicating expected learning outcomes;		+		
102	2.	information about the possibility of qualification at the end of the EP;		+		
103	3.	information on teaching, training, assessment procedures;		+		
104	4	information about passing grades and educational opportunities provided to students;		+		
105	5.	information on job opportunities for graduates	+			
106	6.	EP management should use a variety of methods of disseminating information (including media, web resources, information networks, etc.) to inform the general public and interested parties.	+			
107	7.	Public awareness should include support and clarification of national development programs of the country and the system of higher and postgraduate education.		+		
108	8.	The university should publish audited financial statements on its own web resource.			+	
109	9.	The university should demonstrate the reflection on the web resource of information characterizing the university as a whole and in the context of EP.	+			
110	10.	An important factor is the availability of adequate and objective information about the faculty of education, in terms of personalities.		+		
111	11	An important factor is informing the public about cooperation and interaction with partners within the framework of EP, including with scientific / consulting organizations, business partners, social partners and educational organizations.		+		
112	12.	The university should post information and	+			

		links to external resources based on the results of external evaluation procedures.				
113	13.	An important factor is the participation of the university and implemented EPs in various external assessment procedures .	+			
<b>Total standard</b>			5	7	1	
<b>Standards in the context of individual specialties</b>						
<b>EDUCATION</b>						
		Educational programs in the field of "Education" must meet the following requirements:				
114	1	EP management should demonstrate that the graduates of the program have theoretical knowledge in the field of psychology and communication skills, analysis of personality and behavior, methods of preventing and resolving conflicts, motivating students;		+		
115	2.	EP management should demonstrate the literacy of graduates of the program in the field of information technology.		+		
116	3.	EP management should demonstrate the presence in the program of disciplines teaching 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);		+		
117	4	EP management should demonstrate to students the ability to teach self-study skills;		+		
118	5.	Within the framework of the EP, emphasis should be placed on various types of practices: - attending lectures and classes conducted by teachers; - Conducting special seminars and discussions on the latest teaching methodologies and technologies; - within the framework of the program, students should be able to listen to at least one discipline in the field of their specialization taught by a practicing specialist;	+			
119	6.	Under the EP, students should be provided with the knowledge and skills of systems and methods of pedagogy in the world, as well as knowledge in the field of education management.		+		
<b>Total standard</b>			1	5		
<b>TOTAL</b>			<b>47</b>	<b>64</b>	<b>8</b>	

**Custom Profile Options**  
**"5B070100 / 6B05102 - Biotechnology"**

No. p \ p	No. n \ n	Criteria for evaluation	Education Organization Position			
			Strong	Satisfactory	Suggests improvement	Unsatisfactory
<b>Standard " Management of the educational program "</b>						
1	1	The university must have a published quality assurance policy.		+		
2	2	Quality assurance policies should reflect the link between research, teaching and learning.	+			
3	3	The university should demonstrate the development of a culture of quality assurance, including in the context of EP.		+		
4	4	A commitment to quality assurance should apply to any activity carried out by contractors and partners (outsourcing), including in the implementation of joint / double degree education and academic mobility.			+	
5	5	Manual OP ensures the transparency of the development plan for the development of OP based on an analysis of its functioning, the real position of the university and the orientation of its activities to meet the needs of the state, employers, stakeholders and students.	+			
6	6	EP management demonstrates the functioning of the mechanisms for forming and regularly reviewing the EP development plan and monitoring its implementation, assessing the achievement of learning goals, meeting the needs of students, employers and society, making decisions aimed at continual improvement of EP.		+		
7	7	EP management should involve representatives of stakeholder groups, including employers, students and faculty members, in the formation of the EP development plan .	+			
8	8	EP management must demonstrate the individuality and uniqueness of the EP development plan , its consistency with national development priorities and the development strategy of the educational organization.	+			
9	9	The university should demonstrate a clear definition of those responsible for business processes within the framework of the EP, an unambiguous distribution of the duties of the staff, and delimitation of the functions of collegial bodies.		+		
10	10	EP management must provide evidence of the transparency of the educational program management system.		+		
11	11	EP management must demonstrate the successful functioning of the internal quality assurance system of the EP, including its design, management and monitoring, their improvement, and decision-making based on facts.		+		
12	12	EP management must manage risk.		+		

13	13	EP management should ensure the participation of representatives of interested parties (employers, teaching staff, students) in the collegial bodies of the educational program management, as well as their representativeness in making decisions on educational program management.	+			
14	14	The university should demonstrate innovation management in the framework of the EP, including the analysis and implementation of innovative proposals.			+	
15	15	EP management should demonstrate evidence of openness and accessibility for students, faculty, employers and other interested parties.		+		
16	16	EP management must be trained in education management programs.			+	
17	17	EP management should strive to ensure that progress made since the last external quality assurance procedure was taken into account in preparation for the next procedure.		+		
<b>Total standard</b>			<b>5</b>	<b>9</b>	<b>3</b>	
<b>Standard “ Information Management and Reporting ”</b>						
18	18.	The university should ensure the functioning of a system for collecting, analyzing and managing information based on the use of modern information and communication technologies and software.		+		
19	19.	EP management must demonstrate the systematic use of processed, adequate information to improve the internal quality assurance system.		+		
20	20.	Within the framework of EP, there should be a system of regular reporting, reflecting all levels of the structure, including an assessment of the effectiveness and efficiency of the departments and departments, and scientific research.		+		
21	21.	The university should establish the frequency, forms and methods of evaluating the management of EP, the activities of collegial bodies and structural divisions, senior management, and the implementation of scientific projects.		+		
22	22.	The university should demonstrate the definition of the order and ensuring the protection of information, including the definition of responsible persons for the accuracy and timeliness of the analysis of information and the provision of data.		+		
23	23.	An important factor is the involvement of students, workers and teaching staff in the processes of collecting and analyzing information, as well as making decisions based on them.	+			
24	24.	EP management should demonstrate the existence of a communication mechanism with students, employees and other interested parties, including the existence of conflict resolution mechanisms.		+		
25	25.	The university should provide a measure of the degree of satisfaction of the needs of faculty,	+			

		staff and students in the framework of the EP and demonstrate evidence of elimination of the discovered deficiencies.				
26	26.	The university should evaluate the effectiveness and efficiency of activities, including in the context of EP.		+		
		<i>Information collected and analyzed by the university should take into account:</i>				
27	27.	key performance indicators;		+		
28	28.	the dynamics of the contingent of students in the context of forms and types;	+			
29	29.	level of academic achievement, student achievement and expulsion;	+			
30	30.	students' satisfaction with the implementation of the academic program and the quality of education at the university;	+			
31	31.	the availability of educational resources and support systems for students;	+			
32	32.	employment and career growth of graduates.	+			
33	33.	Students, employees and faculty must document their consent to the processing of personal data.	+			
34	34.	EP management should facilitate the provision of all necessary information in relevant fields of science.		+		
<b>Total standard</b>			8	9		
<b>Standard " Development and approval of educational programs "</b>						
35	13.	The university should determine and document the procedures for the development of EP and their approval at the institutional level.	+			
36	14.	EP management should ensure that developed EPs are consistent with established goals, including intended learning outcomes.	+			
37	15.	EP management should ensure the availability of developed models of the graduate of the EP that describe the learning outcomes and personal qualities.	+			
38	16.	EP management must demonstrate the conduct of external expert reviews.		+		
39	17.	The qualifications obtained upon completion of the EP must be clearly defined, explained and consistent with a certain level of NSC.		+		
40	18.	EP management should determine the impact of disciplines and professional practices on the formation of learning outcomes.	+			
41	19.	An important factor is the ability to prepare students for professional certification.		+		
42	20.	EP management must provide evidence of the participation of students, faculty and other stakeholders in the development of EP, ensuring their quality.	+			

43	21.	The complexity of the EP should be clearly defined in Kazakhstan laws and ECTS .		+		
44	22.	EP management should ensure the content of academic disciplines and learning outcomes for the level of training (bachelor's, master's, doctoral).		+		
45	23.	The structure of the EP should provide for various types of activities corresponding to the learning outcomes.	+			
46	24.	An important factor is the presence of joint educational institutions with foreign educational organizations.			+	
<b>Total standard</b>			6	5	1	
<b>Standard “ Continuous monitoring and periodic evaluation of educational programs ”</b>						
47	11.	The university should conduct monitoring and periodic assessment of the EP in order to ensure the achievement of the goal and meet the needs of students and society. The results of these processes are aimed at continuous improvement of the OP.		+		
		<i>Monitoring and periodic assessment of EP should consider:</i>				
48	12.	the content of the programs in the light of the latest achievements of science in a particular discipline to ensure the relevance of the taught discipline;		+		
49	13.	changes in the needs of society and the professional environment;	+			
50	14.	load, academic performance and graduation of students;		+		
51	15.	the effectiveness of student assessment procedures;		+		
52	16.	students' expectations, needs, and satisfaction with learning in EP;	+			
53	17.	educational environment and support services and their compliance with the goals of the EP.		+		
54	18.	The university and the EP management must provide evidence of the participation of students, employers and other stakeholders in the revision of the EP.	+			
55	19.	All interested parties should be informed of any planned or taken actions regarding the OP. All changes made to the OP should be published.			+	
56	20.	EP management should ensure that the content and structure of the EP are reviewed taking into account changes in the labor market, requirements of employers and the social request of the company.	+			
<b>Total standard</b>			4	5	1	
<b>Standard " Student-centered Learning, Teaching and Assessment "</b>						
57	11.	EP management should ensure respect and attention to various groups of students and their needs, providing them with flexible learning	+			



		paths.				
58	12.	EP management should ensure the use of various forms and methods of teaching and learning.	+			
59	13.	An important factor is the availability of our own research in the field of teaching methods of educational disciplines of EP.		+		
60	14.	EP management should demonstrate the existence of a feedback system for the use of various teaching methods and assessment of learning outcomes.		+		
61	15.	EP management should demonstrate support for students' autonomy while guiding and assisting the teacher.	+			
62	16.	EP management should demonstrate the existence of a procedure for responding to student complaints.	+			
63	17.	The university should ensure the consistency, transparency and objectivity of the mechanism for assessing learning outcomes for each EP, including the appeal.	+			
64	18.	The university should ensure that the procedures for evaluating the learning outcomes of students of EP study are in line with the planned learning outcomes and program objectives. Evaluation criteria and methods within the framework of the EP should be published in advance.		+		
65	19.	The university should determine the mechanisms for ensuring the mastery of each learning outcome by each graduate of the study program and ensure the completeness of their formation.		+		
66	20.	Evaluators must be proficient in modern methods of assessing learning outcomes and regularly improve their skills in this area.			+	
<b>Total standard</b>			5	4	1	
<b>Standard " Learners "</b>						
67	13.	The university should demonstrate a policy for the formation of the contingent of students from admission to graduation and ensure the transparency of its procedures. Procedures governing the life cycle of students (from admission to completion) must be defined, approved, published.		+		
68	14.	EP management should demonstrate the implementation of special adaptation and support programs for newly arrived and foreign students.	+			
69	15.	The university must demonstrate the conformity of its actions to the Lisbon Recognition Convention.		+		
70	16.	The university should cooperate with other educational organizations and national centers of the European Network of National Information Centers for Academic Recognition and Mobility / National Academic Recognition Information Centers ENIC / NARIC in order to ensure comparable recognition of qualifications.			+	

71	17.	EP management should demonstrate the existence and application of a mechanism for recognizing the results of academic mobility of students, as well as the results of additional, formal and non-formal learning.		+		
72	18.	The university should provide an opportunity for external and internal mobility of students of EP, as well as assist them in obtaining external grants for training.		+		
73	19.	EP management should make every effort to provide students with places of practice, facilitate the employment of graduates, and maintain contact with them.	+			
74	20.	The university should provide graduates of the study program with documents confirming the qualifications obtained, including the results of training, as well as the context, content and status of the education and evidence of completion.		+		
75	21.	An important factor is the monitoring of employment and professional activities of graduates of EP.	+			
76	22.	EP management should actively encourage students to self-education and development outside the main program (extracurricular activities).		+		
77	23.	An important factor is the existence of an existing alumni / association.		+		
78	24.	An important factor is the availability of a support mechanism for gifted students.		+		
<b>Total standard</b>			3	8	1	
<b>Standard " Faculty "</b>						
79	13.	The university should have an objective and transparent personnel policy, including hiring, professional growth and staff development, ensuring the professional competence of the entire staff.		+		
80	14.	The university should demonstrate the compliance of the staff potential of the teaching staff with the development strategy of the university and the specifics of the academic program.		+		
81	15.	EP management should demonstrate awareness of responsibility for its employees and ensure favorable working conditions for them.		+		
82	16.	EP management should demonstrate a change in the role of the teacher in connection with the transition to student-centered learning.	+			
83	17.	The university should determine the contribution of faculty staff to the implementation of the development strategy of the university, and other strategic documents.		+		
84	18.	The university should provide opportunities for career growth and professional development of faculty staff.		+		
85	19.	EP management should involve practitioners in relevant industries in teaching.	+			

86	20.	EP management should provide targeted action to develop young teachers.		+		
87	21.	The university should demonstrate the motivation for the professional and personal development of teachers of EP, including encouraging the integration of scientific activity and education, as well as the use of innovative teaching methods.		+		
88	22.	An important factor is the active use of teaching staff of information and communication technologies in the educational process (for example, on-line training, e-portfolio, MEP, etc.).		+		
89	23.	An important factor is the development of academic mobility in the framework of EP, the involvement of the best foreign and domestic teachers.			+	
90	24.	An important factor is the involvement of teaching staff in public life (the role of teaching staff in the education system, in the development of science, the region, the creation of a cultural environment, participation in exhibitions, creative contests, charity programs, etc.).		+		
<b>Total standard</b>			2	9	1	
<b>Standard “Educational Resources and Student Support Systems”</b>						
91	one.	EP management must demonstrate the adequacy of material and technical resources and infrastructure.		+		
92	2.	EP management should demonstrate the existence of support procedures for various groups of students, including information and counseling.	+			
		<i>EP management must demonstrate compliance of information resources with EP specifics, including compliance with:</i>				
93	3.	technological support for students and faculty in accordance with educational programs (for example, online training, modeling, databases, data analysis programs);		+		
94	4	library resources, including a fund of educational, methodological and scientific literature on general education, basic and majors in paper and electronic media, periodicals, access to scientific databases;	+			
95	5	Access to Educational Internet Resources	+			
96	6	examination of the results of research, final works, dissertations on plagiarism;		+		
97	7	WI-FI functioning in the territory of the educational organization.			+	
98	8	The university should strive to ensure that the educational equipment and software used to master the educational program are similar to those used in the relevant industries.		+		
99	9	The university must ensure compliance with safety requirements in the learning process.		+		

100	10	The university should strive to take into account the needs of various groups of students in the context of EP (adults, workers, foreign students, as well as students with disabilities).	+			
<b>Total standard</b>			4	5	1	
<b>Public Awareness Standard</b>						
		<i>Information published by the university within the framework of the EP should be accurate, objective, relevant and should include:</i>				
101	1	ongoing programs indicating expected learning outcomes;		+		
102	2.	information about the possibility of qualification at the end of the EP;		+		
103	3.	information on teaching, training, assessment procedures;		+		
104	4.	information about passing grades and educational opportunities provided to students;		+		
105	5.	information on job opportunities for graduates.	+			
106	6.	EP management should use a variety of methods of disseminating information (including media, web resources, information networks, etc.) to inform the general public and interested parties.	+			
107	7.	Public awareness should include support and clarification of national development programs of the country and the system of higher and postgraduate education.		+		
108	8.	The university should publish audited financial statements on its own web resource.			+	
109	9.	The university should demonstrate the reflection on the web resource of information characterizing the university as a whole and in the context of EP.	+			
110	10.	An important factor is the availability of adequate and objective information about the faculty of education, in terms of personalities.		+		
111	11.	An important factor is informing the public about cooperation and interaction with partners within the framework of EP, including with scientific / consulting organizations, business partners, social partners and educational organizations.		+		
112	12.	The university should post information and links to external resources based on the results of external evaluation procedures.	+			
113	13.	An important factor is the participation of the university and implemented EPs in various external assessment procedures.	+			
<b>Total standard</b>			5	7	1	
<b>NATURAL SCIENCES, AGRICULTURAL SCIENCES, TECHNICAL SCIENCES, AND TECHNOLOGIES</b>						
		<i>Educational programs in the areas of "Natural Sciences", "Technical Sciences and Technologies", such as "Mathematics", "Physics", "Information Systems", etc., must meet the following requirements:</i>				
114	1	In order to familiarize students with the professional environment and relevant issues in the field of specialization, as well as to acquire		+		

		skills based on theoretical training, the education program should include disciplines and activities aimed at gaining practical experience and skills in the specialty in general and majors in particular, etc. - excursions to enterprises in the field of specialization (factories, workshops, research institutes, laboratories, educational and experimental farms, etc.), - conducting individual classes or entire disciplines at the enterprise of specialization, - conducting seminars to solve practical problems relevant for enterprises in the field of specialization, etc.				
115	2.	The teaching staff involved in the education program should include full-time teachers who have long-term experience as full-time employees in enterprises in the field of specialization of the education program.		+		
116	3.	The content of all disciplines of physics should be based to one degree or another and include a clear relationship with the content of fundamental natural sciences, such as mathematics, chemistry, physics.		+		
117	4	EP management should provide measures to strengthen practical training in the field of specialization.		+		
118	5.	EP management should provide training for students in the application of modern information technologies.		+		
<b>Total standard</b>				5		
<b>TOTAL</b>			<b>42</b>	<b>66</b>	<b>10</b>	