



«АККРЕДИТТЕУ ЖӘНЕ РЕЙТИНГТИҢ  
ТӘУЕЛСІЗ АГЕНТТІГІ» КЕМ

НУ «НЕЗАВИСИМОЕ АГЕНТСТВО  
АККРЕДИТАЦИИ И РЕЙТИНГА»

INDEPENDENT AGENCY FOR  
ACCREDITATION AND RATING

## **REPORT**

**on the results of the work of an external expert commission  
on assessment**

**for compliance with the requirements of the standards of  
specialized accreditation of educational programs**

**6B05314- "Chemistry", 7M05311-Chemistry,  
6B05112- "General Biology", 7M05111- "General Biology",  
7M05211- "Geoecology and environmental management",  
6B11113- "Restaurant business"**

**M.KH. DULATY TARAZ STATE UNIVERSITY**

**Site Visit Dates: from 28 to 30 November 2019**

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

**Addressed to**  
**Accreditation**  
**IAAR Council**

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**M.KH. DULATY TARAZ STATE UNIVERSITY**

**from November 28 to November 30, 2019**

Taraz, 2019

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**(I) LIST OF SYMBOLS AND ABBREVIATIONS**

SP	- study program
GEC	- general education courses
RO	- Registrar Office
WC	- Working Curriculum
SITC	- scientific and information technologies center
RW	- research work
QMS	- Quality Management System
RSE	- Republican state enterprise
REM	- on the right of economic management
AS	- academic staff
EDMS	- electronic document management system
MM	- mass media
NAS RK	- National Academy of Sciences of the Republic of Kazakhstan
IDC	- Intellectual Debate Club
IS IOS	- international standard of the International Organization for Standardization
SMA	- student movement accounting
EMCC	- Education Methodological Course Complex
OH	- Office Hours
UNT	- unified national testing
CT	- Complex Testing
LLP	- limited liability partnership
JSC	- Joint-Stock Company
MGI	- Municipal Government Institution
HE	- higher education
WI	- work instruction
SRW	- Student research work
SRC	- student research clubs
EASA	- External Assessment of Students' Achievement
ISC	- intermediate state control
SEB	- State Examination Board
WC	- Working Curriculum
RL	- research laboratory
RI	- research institute
RC	- research center
E	- emergencies
SCT	- student construction team
HLS	- healthy lifestyle
ZhRB of RSE	- Zhambyl regional branch of the Republican State enterprise
EMCS	- Education Methodological Complex of Specialties
UEMC	- University Education and methodological Council
FSMB	- Faculty Scientific and Methodological Bureau
SIC	- student's individual code
CE	- Catalog of electives
LIC	- learner's individual code

## **(II) INTRODUCTION**

*In accordance with the order No. 110-19-OD of 10/22/2019 of the Independent Agency for Accreditation and Rating, from November 28 to 30, 2019, an external expert commission assessed the conformity of educational programs 6B05314- "Chemistry", 7M05311-Chemistry, 6B05112- "General biology ", 7M05111-" General biology ", 7M05211-" Geoecology and environmental management ", 6B11113-" Restaurant business " of Taraz State University named after M.Kh.Dulati to the standards of specialized accreditation of the IAAR (No. 10-17-OD of February 24, 2017., fifth edition).*

*The report of the external expert commission (EEC) contains an assessment of the submitted educational programs to the IAAR criteria, recommendations of the EEC on further improvement of educational programs and profile parameters of educational programs.*

The composition of the EEC:

1. The chairman of the commission is Turtkaraeva Gulnara Bayanovna, candidate of pedagogical sciences, associate professor, Kokshetau State University named after Sh. Ualikhanova (Kokshetau);

2. Foreign expert - Ignaci- Menéndez Pidal de Navascués, Professor, Doctor in Civil Engineering, Polytechnic University of Madrid (Madrid, Spain);

3. Foreign expert - Livia Nistor-Lopatenco, Ph.Dr. in Engineering, Dean of the Faculty Constructions, Geodesy and Cadastre, Technical University of Moldova (Chisinau, Republic of Moldova);

4. Expert - Ismayilova Guzal Amitovna, Doctor PhD, ass. prof., Kazakh National University. al-Farabi (Almaty);

5. Expert - Kalymova Kulziya Akrashevna, Ph.D., Eurasian National University named after L. Gumileva (Nur-Sultan);

6. Expert - Shaikenova Kimbat Khamitovna, candidate of agricultural sciences, associate professor, Kazakh Agro Technical University named after S. Seifullina (Nur-Sultan city);

7. Expert - Aldungarova Aliya Kairatovna, Doctor PhD, Associate Professor, Pavlodar State University named after S. Toraigyrov (Pavlodar);

8. Expert - Idrisheva Zhanat Kabyrbekovna, candidate of technical sciences, East Kazakhstan State Technical University named after D. Serikbaev (Ust-Kamenogorsk);

9. Expert - Mursalimova Elmira Askarovna, Ph.D., Associate Professor, Kazakh National Agrarian University (Almaty);

10. Expert - Khamraev Sheripidin Itakhunovich, Ph.D., professor, Kazakh National Pedagogical University named after Abay (Almaty);

11. Expert - Bulashev Berdibek Kabkenovich, candidate of agricultural sciences, associate professor, S.A.Seifullin Kazakh Agrotechnical University (Nur-Sultan);

12. Expert - Abenova Elena Anatolievna, Ph.D., Associate Professor, Narxoz University (Almaty);

13. Expert - Sarsenova Lazzat Kadirgalievna, Ph.D., Kazakh National University named after al-Farabi (Almaty);

14. Expert - Kopishev Eldar Ertaevich, Ph.D., Acting Associate Professor, Eurasian National University. L.N. Gumileva (Nur-Sultan);

15. Employer - Akchalova Aigul Sagimbekovna, head of FE "Akchalova", Restaurant "Marakesh", "Piala", "Monterey" (Taraz);

16. Employer - Ukasova Aida Halilovna, head of FE "Rakhimov" (Taraz);

17. Student - Ayana Baitytzyzy Bitenova, 2nd year student of the educational institution "5V080110-Plant Protection and Quarantine", Taraz University of the Humanities and Innovation and Humanities (Taraz);

18. Student - Adilbek Kudaibergen Nazymbekuly, 4th year student, EP 5V070400-Computer Engineering and Software, Taraz University of the Humanities and Innovation and Humanities (Taraz)

19. Student - Zhaymila Serikbaygyzy K̇ydaybergenova, 4th year student of the 5V011200 Chemistry, Taraz State Pedagogical University (Taraz);

20. Student - Umiralkhanov Azizkhan Najimkhanuly, 4th year student of the educational program "5V010900 Mathematics", Taraz State Pedagogical University (Taraz);

21. The observer for the Agency is Timur Yerbolatovich Kanapyanov, Dr. PhD, Head of International Projects and Public Relations of the IAAR (Nur-Sultan).

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

Taraz State University named after Mohammed Haydar Dulati (TarSU) was formed by the Decree of the Government of the Republic of Kazakhstan No. 256 dated 03.24.1998 by reorganization and merger of the Dzhambul irrigation and drainage and construction institute, the Dzhambul technological institute of light and food industry and the Zhambyl university.

As the republican state state-owned enterprise of the Ministry of Education and Science of the Republic of Kazakhstan, TarSU named after M.Kh.Dulati was established in accordance with the Decree of the Government of the Republic of Kazakhstan "On the Reorganization of the Institutions of the Ministry of Education and Science of the Republic of Kazakhstan" No. 1879 dated 12/08/1999. In 2012, the Government of the Republic of Kazakhstan No. 544 dated 04/28/2012, State Enterprise "Taraz State University named after Mohammed Haydar Dulati" was transformed into a Republican state enterprise on the basis of economic management.

Personnel training at TarSU is carried out in accordance with the State license for educational activities in the field of higher and postgraduate professional education No. 12020167 of 11/14/2012, and the annexes to the license of 12/22/2017, order of the Ministry of Education and Science of the Republic of Kazakhstan No. 237 of 05/23/2017 g.

The contingent of full-time students as of November 05, 2019 is 6425 students (of which 1489 are based on the state educational grant), part-time students - 5239, distance learning - 1103, evening classes - 388, 356 undergraduates and 44 doctoral students.

Currently, the total number of full-time teachers at the university is 630 people. The full-time teachers include 39 doctors of sciences, professors, 242 candidates of sciences, associate professors, 36 doctors of PhD, 262 masters. The university employs 25 people who are part of the NAS, industry academies of sciences and professional associations of the Republic of Kazakhstan.

The university consists of 9 faculties, 43 departments, 88 laboratories. Teaching and research processes take place in 14 teaching and laboratory buildings with a total area of 73924.4 sq.m.

In 2014, TarSU was recognized as the "Industry Leader" (certificate of the National Business Rating of the Republic of Kazakhstan), and the rector was recognized as "The Best Leader of the Year". In 2017, according to the results of the world rating of the Webometrics Ranking of World Universities research group ([www. Webometrics.com](http://www.Webometrics.com)), TarSU ranks 11104 among 20 thousand universities in the world, and 21 among 112 domestic universities. Since 2018, the university has been participating in the ranking of universities of the most "environmentally friendly" universities in the world Greenmetric.

The University is a member of 5 international, national and regional professional associations and associations: University of the Shanghai Cooperation Organization (SCO, dated 12.10.2012), Eurasian Association of Universities (dated 15.04.2015), European Association of Higher Education Institutions (EURASHE) ( dated July 1, 2015), the Association of Universities of Central Asia (dated March 15, 2017), the Association of Asian Universities (dated June 25, 2017).

The educational program 7M05211- "Geoecology and Environmental Management" is supervised by the Department of "Ecology", founded in 1995, one of the first established departments at the university. The department has a highly qualified faculty and implement a personnel policy in accordance with the main priorities of the university development strategy. The Department of Ecology is headed by PhD Madalieva E.B. According to the staff, the number of teaching staff conducting classes in the state language was 100%. Most of the teachers serving the EP in major subjects have had a scientific and pedagogical experience of more than 10 years.

Education of students, training of undergraduates and the selection of research topics at the department is carried out taking into account European experience and existing international contacts of the department in the implementation of joint educational and scientific projects.

At present, the department employs 15 teachers with the highest qualifications, including 1 doctor of science, professor, 8 candidate of science, associate professors and 1 PhD doctor and 5 masters of ecology. Students, undergraduates study in specialized educational laboratory laboratories.

Study programs 6B05314- "Chemistry", 7M05311-Chemistry, is supervised by the department "Chemistry and Chemical Technology", which was founded in 1963 from several chemical departments of the Dzhambul Technological Institute of Light and Food Industries. The department "Chemistry and Chemical Technology" has a sufficient material and technical base, is equipped with classrooms, classrooms and laboratories equipped with equipment, devices, an interactive whiteboard, a projector, computers. The organization of the educational process is carried out in 2 classrooms for seminars and lectures, 12 laboratories. Laboratories are equipped with special equipment, materials, reagents. Also, the audience of the department are equipped with stands and visual teaching aids. Each laboratory has work plans, passports, instructions, a safety magazine, a memo and instructions on fire safety measures. Each laboratory is equipped with fire extinguishing means: fire extinguishers, sand boxes. First aid kits are available in the laboratories. Separate laboratory and practical classes in a number of disciplines, such as "Analytical Chemistry", "Chemistry of Phosphorus and Its Compounds" are held at the branches of the department of Kazphosphate LLP, Mineral Fertilizers Plant. State license 7003596 was obtained for the right to operate with precursors.

Study l programs 6B05112- "General Biology", 7M05111- "General Biology" is managed by the Department of Biology. In 1996, at the Zhambyl University, the department of "Disciplines of the natural sciences" was organized. In 1998, at the merger of the three universities, the department was renamed "Biology and Ecology", later in 2001 the department was reorganized, on the basis of this, the department of "Biology" was created at the Faculty of Natural Sciences. In the 2011-2012 academic year (08/28/2011), the Department of Ecology and Biology was re-formed at the Faculty of Water Management, Ecology and Construction. Starting from the 2013-2014 academic year (August 28, 2013), the Department of Ecology and Biology was reorganized, the Department of Biology was re-established at the Faculty of Water Management, Ecology and Construction. Since 2018, the department is headed by PhD Tumenbaeva Nagima Toktasynovna. Provides training in biology. The main areas of scientific activity: studies of flora and fauna of the Zhambyl

region and their agricultural significance, ecogenetic studies. Educational programs 6B05112- "General Biology", 7M05111- "General Biology" were developed for the first time, passed examination and registration in the register of Educational Programs at the Center for Bologna Process and Academic Mobility of the Ministry of Education and Science of the Republic of Kazakhstan, in the academic year 2019-2020 the first set of students was carried out.

6B11113 - The restaurant business is overseen by the Department of Tourism and Service. Previously, EP "Restaurant business and hotel business" was part of the department "Metrology and certification" at the faculty of "Economics". In 2015, the IQAA recommended combining the EP Tourism and EP RDGB in one department, since they are of the same training direction, so in 2017 the SP "RB&H" was part of the "Tourism and Service" department of the Faculty of Technology.

This SP is new and began to function since September 2019, 20 people were recruited. In parallel, students of the 2nd, 3rd and 4th courses are completing their studies at the EP "Restaurant business and hotel business". The department has a sufficient material and technical base: currently there are 15 full-time employees, there is a teaching department, where there are 8 desktops and 6 computers, a manager's office equipped with the necessary office equipment. 6 classrooms of the department are equipped with office equipment: interactive whiteboard, projector, computer. There are laboratories for the Republican Children's Hospital and Tourism. In the laboratory of the Russian Children's City Hospital there is a water supply and sanitation system, household appliances, a bar counter with bar equipment, tableware, tables and table textile. The department has a branch on the basis of the Zhambyl hotel (order to create a branch No. 482 dated 12/30/2016), where practical classes are held according to the approved schedule, which are led by the head of the administration department of the Zhambyl hotel - Zh.A. Akhmetzhanova. In addition, there are agreements with the restaurants of the city. Employment of graduates is almost 100%.

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

Educational programs "6B05314-" Chemistry ", 7M05311-Chemistry, 6B05112-" General Biology ", 7M05111-" General Biology ", 7M05211-" Geocology and Environmental Management ", 6B11113-" Restaurant Business "are accredited to the IAAR for the first time.

#### ***(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 in TarSU from November 28 to 30, 2019.

In order to coordinate the work of the EEC, an installation meeting was held on November 27, 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.

To obtain objective information about the quality of educational programs and the entire infrastructure of the university, to clarify the content of self-assessment reports, meetings were held with the rector, vice-rectors of the university in areas of activity, heads of structural divisions, deans of faculties, heads of departments, teachers, students, graduates, employers. In total, 207 representatives took part in the meetings (table 3).



**Table 3 - Information on the target groups of 4 clusters that took part in meetings with the EEC IAAR:**

Category of participants	Number
Rector	1
Vice-rectors	5
Heads of structural divisions	30
Deans of faculties	6
Department Heads	13
Teachers (paste from the program according to your cluster)	42
Trainees (paste from the program according to their cluster)	48
Graduates (paste from the program in their cluster)	37
Employers (paste from the program on their cluster)	25
Total	207

During the tour, members of the EEC familiarized themselves with the state of the material and technical base of accredited EPs:

According to SP 6B05314- "Chemistry", 7M05311-Chemistry: Scientific Center for Physical and Chemical Research named after Doctor of Chemistry, Professor Mukhametkaliev T.M., Research Laboratory named after A. Akhmetova: Laboratory of Infrared Spectroscopy; Laboratory of Atomic Emission Spectrometry; Chromatographic Laboratory; Spectrophotometry Laboratory. 2.3.210 - Laboratory of Analytical Chemistry, 2.3.212 - Laboratory of Chemistry, 2.3.214 - Laboratory of Colloid Chemistry, 2.3.219 - Laboratory of Chemical Technology of Inorganic Substances, 2.3.221 - Laboratory of Organic Chemistry, 2.3. 223 - Laboratory of Mineral Fertilizers, 2.3. 224 - Laboratory of Inorganic Chemistry, 2.3.226 - Laboratory of Physical Chemistry, 2.3.213 - audience named after Ph.D., professor M. Sakhy, 2.3.226 - Warehouse of precursors, 2.3.230 - Audience for the preparation of reagents.

In SP 6B11113-Restaurant business, they visited an auditorium fund (2.5.128, 2.5.130, 2.5.422, 2.5.425), Restaurant Business Laboratories 2.5.123 and 2.5.126, a branch of the department at the Zhambyl Hotel.

According to 7M05211- "Geocology and environmental management":

- The audience for the implementation of theses, term papers and master's theses: 6.2.404

- Lecture room 6.4.406
- Laboratory "Environmental Impact Assessment"
- Audience of "Multilingual Education"

According to SP 6B05112- "General Biology", 7M05111- "General Biology": general and special purpose audiences on the basis of the Department of Biology; educational research and production center "Phytochemistry"; experimental site "Greenhouse", Republican State Research Enterprise "Zhambyl Veterinary Research Institute named after Academician K.I. Scriabin "

At the meeting of the EEC of the IAAR with the target groups of TarSU, the mechanisms for implementing the policy of the university were refined and the specifics presented in the self-assessment report of the university were specified.

EEC members attended training sessions:

According to SP 7M05311-Chemistry:

- discipline "Introduction to the chemistry of polymers", associate professor Tsoi I.G., in aud. 2.3.214. The lesson was held in accordance with the thematic plan, the necessary materials were present at the lesson.

According to SP 6B05314- "Chemistry":

- discipline "Chemical ecology", associate professor Matniyazova GK, in the auditorium. 2.3.213. The lesson was held in accordance with the thematic plan, the necessary materials were present at the lesson.

according to SP 6B05112- "General Biology": 10.00-11.15 hours, discipline "Age-related physiology and school hygiene", 3 year, Russian department, teacher Golikova K., aud. 6.2.114 - the laboratory lesson was held in accordance with the thematic plan, the syllabus was presented. The lesson was conducted according to standard methods, students learned to evaluate the functional state of the cardiovascular system.

by SP Restaurant business:

- in the course "Management Jyyesin qyrastyru zhane iengizu", 4 year specialty "5B091200-Restaurant and hotel business", practical lesson, candidate of technical sciences, acting Associate Professor Orynbaeva UA, Theme "Birikpen Sapa Management yyyerereperi algoritmi algoritm algoritm algoritm algoritm algoritm algoritm algoritm algoritm" (audience 2.5 425) 4th year students considered ISO standards in the restaurant business, their principles. The teacher updated the value of standards by the example of the realities of the Kazakhstan market, students are actively involved in the educational process, answer questions, give examples.

- in the course "Fundamentals of Entrepreneurship in the Russian State Children's Library", 2 year, specialty "5B091200-Restaurant and hotel business", Art. etc. Master Bekbaulina S.Kh., topic "The value of staffing of hospitality catering enterprises" (audience 2.5 123). Students consolidated theoretical knowledge on examples of solving problems of accounting for the staffing of the enterprise, the teacher gave examples of specific catering enterprises.

According to the program of the visit, according to the approved schedule, classes on accredited SP 7M05211- "Geoecology and Environmental Management" were not conducted.

During their work, members of the EEC visited the following practice bases for accredited EPs:

-EP EP 7M05211- "Geoecology and environmental management":

ZhF TOO "Kazphosphate" (NDFZ):

1. Wastewater Laboratory;
2. Gas analysis laboratory;
3. Laboratory of nature conservation;
4. Ventilation laboratory

Laboratory and analytical control of the Dartment of Ecology in the Zhambyl region:

1. Analysis of the methods of photometric potentials of soil and wastewater samples;
2. Laboratory for the preparation of soil and wastewater samples for titrometric analysis;
3. Laboratory for the preparation of samples of atmospheric air, soil and wastewater.

- according to the SP Restaurant business, they visited a branch of the department - the Zhambyl hotel, at which a cafe and a bar function (order to create a branch No. 482 of 12/30/2016). The department has a Regulation on the branch. On the basis of this branch, the room of the conference hall is equipped as a training laboratory, where students have the opportunity to study, practical classes are held on the Fundamentals of Service and Service Technology, it is included in the general schedule

- according to SP 6B05314- "Chemistry", 7M05311-Chemistry: Kazphosphate LLP, Mineral Fertilizers Plant, Taraz.

- according to SP 6B05112- "General Biology", 7M05111- "General Biology" Republican State Research Enterprise "Zhambyl Veterinary Research Institute named after Academician K.I. Scriabin "

In accordance with the accreditation procedure, a survey was conducted of 127 teachers, 198 students, of whom 54 are studying in SP 4 clusters - 54, including junior and senior 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. Along with this, experts studied the Internet positioning of the university through the university's official website [www.tarsu.kz](http://www.tarsu.kz)

Within the framework of the planned program, recommendations for improving the accredited educational programs of TarSU developed by the EEC based on the results of the examination were presented at a meeting with the management on November 30, 2019.



## **(VI) COMPLIANCE WITH SPECIALIZED ACCREDITATION STANDARDS**

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

- ✓ *The university must have a published quality assurance policy.*
- ✓ *Quality assurance policies should reflect the link between research, teaching and learning.*
- ✓ *The university should demonstrate the development of a culture of quality assurance, including in the context of the SP.*
  - ✓ *A commitment to quality assurance should apply to any activity carried out by contractors and partners (outsourcing), including the implementation of joint / double degree education and academic mobility.*
  - ✓ *SP management ensures transparency in the development of the SP development plan based on an analysis of its functioning, the actual positioning of the university and its focus on meeting the needs of the state, employers, interested parties and students.*
  - ✓ *SP management demonstrates the functioning of the mechanisms for forming and regularly reviewing the SP development plan and monitoring its implementation, assessing the achievement of learning goals, meeting the needs of students, employers and society, making decisions aimed at continuous improvement of the SP.*
  - ✓ *SP management should involve representatives of stakeholder groups, including employers, students and faculty members, in the formation of the SP development plan.*
  - ✓ *SP management must demonstrate the individuality and uniqueness of the SP development plan, its consistency with national development priorities and the educational organization development strategy.*
  - ✓ *The university should demonstrate a clear definition of those responsible for business processes within the framework of the SP, an unambiguous distribution of the duties of the staff, and the delineation of the functions of collegial bodies.*
    - ✓ *SP management must provide evidence of the transparency of the educational program management system.*
    - ✓ *SP management must demonstrate the successful functioning of the internal quality assurance system of the SP, including its design, management and monitoring, their improvement, and decision-making based on facts.*
    - ✓ *SP management must manage risk.*
    - ✓ *SP 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.*
    - ✓ *The university should demonstrate innovation management in the framework of the SP, including the analysis and implementation of innovative proposals.*
    - ✓ *SP management must demonstrate evidence of openness and accessibility for students, faculty, employers and other interested parties.*
    - ✓ *SP management must be trained in education management programs.*
    - ✓ *SP 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.*

### **Evidence part**

Educational activities of SP 6B05314- Chemistry, 7M05311-Chemistry, 6B05112- "General Biology", 7M05111- "General Biology", 7M05211- "Geoecology and Environmental Management", 6B11113- "Restaurant Business" is carried out on the basis of a state license issued by the Committee on control in the field of education and science of the Ministry of Education and Science of the Republic of Kazakhstan. Training in accredited academic programs is carried out in full-time and distance learning, in the state and Russian languages, part-time students complete their studies.

Study programs "6B05314- " Chemistry ", 7M05311-Chemistry, 6B05112- " General Biology ", 7M05111- " General Biology ", 7M05211- " Geoecology and Environmental Management ", 6B11113- " Restaurant Business " are accredited to the IAAR for the first time.

SP 6B05314- Chemistry, 7M05311-Chemistry, 6B05112- "General Biology", 7M05111- "General Biology", 7M05211- "Geoecology and Environmental Management", 6B11113- "Restaurant Business" are implemented in accordance with the vision, mission and Strategy development of TarSU (Provisions PD 15.01-2013, PD 15.02-2013, PD 15.03-2013, PD11 / 1-5.01-2013, RK 01-2017). The Commission notes the availability of the publication of the mission, vision and strategic goals and objectives (<http://tarsu.kz/ru/missiya-videniya-napravleniya.html>), quality policy (<http://tarsu.kz/ru/otdel-monitoringa /politika-v-oblasti-kachestva.html>) in the public domain on the university website. The Commission notes that the university has developed

a culture of quality assurance based on the continuous improvement of the educational process and research activities.

The implementation and development of accredited programs is determined by both the mission, vision, development strategy of the university, and the plans for the development of educational programs (EP 6B11113-Restaurant Business Appendix 21, EP 6B05112- "General Biology" Appendix 34).

The effectiveness of the development plan of the EP is ensured by the responsibility of the teaching staff for the final results, delegation and delimitation of powers, but at the same time, there is not enough information on the university's website, both about the content of the SP itself and about the changes that are being made.

To manage business processes, the University in its activities is guided by ECTS standards and directives and uses a Quality Management System that meets the requirements of international standards. To support the main business processes at the university, a set of internal regulatory documents has been developed that regulates the implementation of the EP (Regulation on the design of MOS. Considered and recommended by the NMSU No. 3 dated 04.04.2019 PD 11 / 1.18-2018 <http://www.tarsu.kz/ru/uchebnyi-process.html>).

The Commission notes that work is ongoing in the field of the quality of educational services provided, the university's website provides information about the Quality Management System (<http://www.tarsu.kz/ru/uchebnyi-process.html>), shows the goals, main tasks and functions of this directions, there is a document "Quality Policy TarSU named after M.Kh.Dulati " (<http://www.tarsu.kz/ru/otdel-monitoringa/politika-v-oblasti-kachestva.html>).

The traditional management mechanisms governing the relationship between employees throughout the management vertical are the University Academic Honor Rules for Academic Honors of Teachers, Employees, Students, and the Code of Honor for Teachers of TarSU (<http://tarsu.kz/ru/studentam.html>), which reflect the requirements of corporate culture, tolerance, academic honesty.

The necessary information, personnel, financial and material and technical resources, as well as regulatory and legal documentation, ensuring the implementation of educational programs, are available for managing SP.

SP management operates on the principles of openness and accessibility for students, faculty and employers. For the development and regular adjustment of SP, teachers and employers are involved. Employers submit their reviews of the curriculum of these SPs and make their proposals (Appendix 23). The list of elective disciplines developed on the initiative of employers is presented in Appendix 2.

At the beginning of each academic year, those responsible for the main business processes for the development and implementation of the SP are appointed, which is enshrined in the Protocol of the meeting of the department (Minutes of the department "Tourism and Service" - Appendix 21).

Information and feedback systems with the university, communication channels with employers, parents and stakeholders TarSU is ensured through the functioning of: the official website of the University; rector's blog; faculty leadership blogs

The university's website contains information about departments implementing accredited academic programs (<http://www.tarsu.kz/ru/kafedry4/kafedra-turizm-i-servis.html>), contact details of the dean of the faculty, and the head of the department. Information about the department, implemented by the SP, the head of the department, teaching staff is available and open to students and visitors.

### ***Analytical part***

The EEC Commission notes the existence of a uniform for the university the form of the Plan for the development of EP, but at the same time, formalism is traced in the development of this plan, it is necessary to develop a plan for the development of SP based on measurable criteria and indicators, for a clearer view of its implementation and ensuring attainability of goals, there is not enough information on the university's website, both about the content of the study program itself and about the changes that are being made. The uniqueness and advantages of the SP 6B05314- Chemistry, 7M05311-Chemistry, 6B05112- "General Biology", 7M05111- "General Biology", 7M05211- "Geoecology and Environmental Management", 6B11113- "Restaurant Business" are insufficiently represented.

In the course of acquaintance with the provided documentation, the commission did not find normative documents that clearly describe the areas and areas of responsibility for the implementation of business processes in the framework of EP, market representatives, students, and other stakeholders.

The university provided confirmation of the management of the educational program on education management programs (Order No. 22 dated January 14, 2019), in particular, a training seminar was held in January 2019, but certificates were not provided.

The university provided information on the results of the last procedure of external quality assurance of the IQAA, the proposed recommendations based on the results of the past accreditation, as well as decisions and measures aimed at implementing the recommendations.

The types of professional activities of the graduate of the 6B05112 – General Biology program in the provided modular educational program according to the GCTEA are defined as general secondary education, specialized secondary, higher education, activities of general hospitals and other activities in the field of health. This is not consistent with national development priorities and the development strategy of the university as a non-pedagogical university. The competencies, types and areas of professional activity in the "Graduate Models ..." submitted for the review of the EEC do not correspond to the competencies and types and fields of activity declared in the MOS "6B05112 – General Biology" and "7M05111 – General Biology". In the Model of the graduate of the EP Baccalaureate, there are links to regulatory documents of the Russian Federation. In the model of the graduate of the SP "7M05111 – General Biology", the field of professional activity is incorrectly defined. The manual of these SPs must be brought into conformity with the indicated sections.

According to the results of the survey of teaching staff:

- 58.3% of the teaching staff are completely satisfied with the attitude of the university management towards them, and 69.3% with the attitude of the direct leadership to them;

- 67.7% are fully satisfied with the working conditions;

- 50.4% are very good and another 48.8% are good at supporting the university and its leadership in developing new educational programs;

- 98.2% positively assess the support of the university and its leadership in the academic and research endeavors of the teaching staff.

According to the results of a survey of students:

- the level of accessibility and responsiveness of the university leadership is "fully satisfied" - 70.2%, "partially satisfied" - 25.8% of students. Only 4% are not satisfied with the availability of health services and 3% rate the availability of counseling on personal issues low.

**Strengths: not revealed.**

**EEC recommendations for the EP 6B05314- "Chemistry", 7M05311-Chemistry, 6B05112- "General Biology", 7M05111- "General Biology", 7M05211- "Geocology and Environmental Management", 6B11113- "Restaurant Business":**

1. To provide indicators and criteria for evaluating effectiveness in the development plans of the SP, to specify the deadlines for the implementation stages of the plan;
2. To include representatives of employers, graduates and students in the collegial governing bodies of the SP, take measures to expand their spectrum and ensure representativeness in making decisions on SP.
3. To provide training for SP management on educational management issues on a regular basis.

**Additionally for SP 6B05112 - General Biology**

4. Bring the profile of the study program with the direction of training according to the Classifier of the directions of training with higher and postgraduate education "6B05 Natural Sciences ..."

**CEC findings:**

According to the standard "Management of the educational program" 17 criteria are disclosed, of which 17 have a satisfactory position.

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

- ✓ 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.
  - ✓ OII EP management must demonstrate the systematic use of processed, adequate information to improve the internal quality assurance system.
  - ✓ Within the framework of the EP, there should be a system of regular reporting, reflecting all levels of the structure, including an assessment of the effectiveness and efficiency of the departments and departments, scientific research.
  - ✓ 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.
  - ✓ The university must demonstrate the definition of the order and ensuring the protection of information, including the identification of responsible persons for the reliability and timeliness of the analysis of information and the provision of data.
  - ✓ 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.
  - ✓ EP management must demonstrate the existence of a mechanism for communication with students, employees and other interested parties, including the existence of conflict resolution mechanisms.
  - ✓ The university should provide a measure of the degree of satisfaction of the needs of faculty, staff and students in the framework of the EP and demonstrate evidence of elimination of discovered deficiencies.
  - ✓ The university should evaluate the effectiveness and efficiency of activities, including in the context of EP.
  - ✓ Information collected and analyzed by the university in the framework of the EP should take into account:
    - o key performance indicators;
    - o the dynamics of the contingent of students in the context of forms and types;
    - o level of academic achievement, student achievement and expulsion;
    - o satisfaction of students with the implementation of the academic program and the quality of education at the university;
    - o the availability of educational resources and support systems for students;
    - o employment and career growth of graduates.
  - ✓ Students, employees and faculty must document their consent to the processing of personal data.
- EP management should facilitate the provision of all necessary information in relevant fields of science

### **Evidence part**

The university implements information management processes, including the collection and analysis of information, management through information technology, as part of this activity, work is underway to develop a corporate network of the university's information and telecommunication system. The corporate network is designed to combine university computers into a single information and computing system with the goal of rational use of hardware resources, ensuring wide access to corporate databases. Along with the traditional ones (Supervisory, Academic Councils, Rectorate, educational-methodical councils, head teacher, department meetings), new technologies are being



introduced to manage all areas of the university's activities (using the capabilities of the local network to post information on the TarSU website; an electronic document management system-EDMS has been introduced), new technologies for teaching and monitoring student performance.

The following information technologies have been introduced in the management of the university:

1. The official website of the university (<http://www.tarsu.kz>) serves as an important source of information about TarSU for students, their parents, teachers, staff, potential employees, applicants, employers, graduates and the community as a whole.

2. The information system "PLATONUS" (<http://platonus.tarsu.kz/>) is intended to provide effective information support for the management processes of the education system, and also provides management of the educational process of TarSU named after M.H. Dulati. Folder for the exchange of information between structural units "Public \$".

3. An electronic catalog (<https://ecat.tarsu.kz/>), an electronic resource for teachers (<http://teacher.tarsu.kz/>), an electronic portal for a student (<http://portal.tarsu.kz/index.php#ob>), the student service center Qyzmet\_TARSU (<http://www.tarsu.kz/ru/2018-11-08-08-04-05.html>) are an aggregator of information systems and includes such sections, like electronic document management, services for a student, including state ones, "Electronic library".

Monitoring of the implementation of the SP is carried out by regularly collecting reports at all levels of the structure, including the minutes of the meetings of the Academic Council of the faculty, the minutes of the meetings of the department, the report of the department for scientific work, the report of the department for educational work, the quality examination of the teaching materials, the educational and material and technical support of the SP, the readiness of the educational and laboratory facilities of SP, etc., as well as through a survey of students, employers and graduates on the degree of satisfaction with the educational services received s.

Assessment is carried out in all areas of educational, teaching, informational, scientific, educational activities and material and technical support of the educational process. Assessment of activity is a continuous process and is carried out at meetings of the Scientific Council, the Scientific and Technical Council, faculties, departments and is made out in the form of protocols. Each year, the university reports on its activities to the Supervisory Board, which is the highest collegial governing body. Evaluation of the activities of SP is carried out by students as the main consumers of educational services. The frequency, forms and methods of assessing the management of SP, the activities of collegial bodies and structural units, the implementation of scientific projects are established by the university in the framework of academic policy (2018) (<http://www.tarsu.kz/ru/studentam.html>), in the provision on designing MOS (<http://www.tarsu.kz/ru/uchebnyi-process.html>). Through the information and educational portal "Sirius", communication with students is carried out through the publication of the necessary information and announcements, which are duplicated on the TarSU website in the "Student" section. Exchange of operational information between the structural units of the university is carried out on a local Intranet chat. Each user's incoming and outgoing messages are displayed on his work page.

The procedure for ensuring the protection of information in TarSU them. M.Kh.Dulati is controlled by the Center for New Information Technologies (CNIT). The commission found that the university has a mail server for organizing the functioning of corporate mail with access to the external environment, there is also a server that provides Internet access to the entire intranet. For the safety of Internet resources, the university uses Kaspersky Lab antiviruses, the functionality of server operating systems with built-in Firewall-oms



restricting access to TMGForeFront system services. Access to the official Internet resource is divided by domain name according to the principle of "LAN", "external" to different interfaces. In addition, the browser request passes through the server with TMGForeFront installed. Installation, configuration and use of anti-virus programs for information protection are regulated by RI 11 / 14.01-2016 by the Operating Instructions for the organization of anti-virus protection dated 01/19/2016.

Employees of the department regularly monitor the operation of corporate database servers to ensure wide access to them, introduce new information technologies, provide technical and software support for the operation of the Platon automated information system.

To monitor the implementation of the SP and the implementation of corrective actions at the university, questionnaires, audits, and polls are also actively used. The effectiveness of the quality assurance system is monitored through internal audits, examination of methodological support, performance evaluation and consideration of issues by collegial bodies. During the interviews it was found that the "Department for Monitoring the Development Strategy, Accreditation and Quality Management System" of TarSU every academic period conducts a survey of teaching staff, students, employers on the quality of teaching, working conditions, etc. Questionnaires used for the survey: "Teacher through the eyes of a student", "Student satisfaction with the quality of the educational process", "Student satisfaction with the quality of the educational program implementation", "Staff satisfaction", etc. The questionnaire results are statistically processed, discussed at meetings of departments, Council of faculties, administration and are taken into account in the further planning of educational activities. Within the framework of these mechanisms, the effectiveness and efficiency of achieving goals, deviations from defined goals are determined. If necessary, decisions are made or plans are developed to improve the quality of education and improve educational activities. As a result of the questionnaire of teaching staff, 59.8% of respondents expressed full satisfaction with their participation in managerial decisions and the same percentage with the Management of changes in the activities of the university.

All interested persons have the opportunity to make an appointment with the rector, and vice-rectors according to the approved schedule of receptions. It is possible to address working questions to the vice-rectors and heads of units in working mode without prior appointment. In addition, anyone has the opportunity to personally contact the rector through his blog on the university's website (<http://www.tarsu.kz/ru/rektor.html>). The blogs of the heads of departments (vice-rectors) also work (<http://www.tarsu.kz/ru/rektorat.html>), decans <http://www.tarsu.kz/index.php/ru/rukovodstvo4>). This indicates the accessibility and openness of the leadership and its attention to the development of feedback from interested parties.

The mechanism for managing conflicts of interest and relations includes: familiarizing teaching staff, employees and students with the provisions of internal regulatory documentation, the requirements for the organization of the educational process, the main areas of work of structural units, internal regulations, etc.; creating a corporate culture based on the equality of rights and obligations of employees, teachers and students, respect for their personal dignity. Conflict situations are resolved through the participation of the trade union committee of the university. In order to prevent conflict situations at the university, documents P 11 / 1.11-2017 "Rules for Academic Honesty of Teachers, Staff and Students of TarSU", Teacher's Code of Honor (<http://www.tarsu.kz/en/kodeks-chestistudenta.html>), RI 15 / 1.04-2016 "Work with complaints", is the "Regulation of the Council on Combating Corruption and Offenses" ([Http://www.tarsu.kz/en/sovet-po-borbe-s-korrupciei/polozhenie-soveta-po-borbe-s-korrupciej.html](http://www.tarsu.kz/en/sovet-po-borbe-s-korrupciei/polozhenie-soveta-po-borbe-s-korrupciej.html)). Detailed information on

the prevention and elimination of conflict situations at the university is given in the standard "Leadership and Management".

The EEC notes that EPs are provided with all the necessary information in the relevant fields of science, as evidenced by the availability of the library fund (<https://ecat.tarsu.kz/>), access to international scientific databases: Clarivate Analytics on the Web of Science platform, (<http://webofknowledge.com>), SpringerLink [www.link.springer.com](http://www.link.springer.com), Scopus (<https://www.scopus.com>), ScienceDirect (<https://www.sciencedirect.com>) by Elsevier (<http://www.elsevier.com>). Starting April 8, 2018, full access to the "Premium" version of EBS IPRbooks (<http://iprbookshop.ru/>) is open. In order to enhance access to other foreign resources of scientific publications, in the academic year 2017-2018, test accesses to the electronic full-text databases EBSC-DiscoveryService, CNKI, POLPRED, EDS "University Online Library", EDS "Lan" were organized, as well as access to full-text domestic resources electronic libraries of the RMEB (Republican Interuniversity Electronic Library) [www.rmeb.kz](http://www.rmeb.kz), Kazakhstan National Electronic Library (KazNEB) [www.kazneb.kz](http://www.kazneb.kz); literary portals "Udebiet" portals <http://adebiportal.kz> и <http://kitap.kz/>, "Patents of Kazakhstan. Inventions Bibliography". During the inspection of the material and technical base and hostels, it was revealed that on most of the campus there is free access to WiFi, which was also confirmed during interviews with students and teaching staff.

During the student survey, 74.2% of respondents were completely satisfied with the support of educational materials in the learning process, 83.3% were completely satisfied with the level of accessibility of library resources, 74.2% were completely satisfied with the existing educational resources of the university, 72.7% were completely satisfied with the availability of computer classes and Internet resources, 83.3% fully agree that the library is well equipped and has a fairly good collection of books.

### ***Analytical part***

On the analysis of compliance with the criteria of the standard "Information Management and Reporting" for accredited SPs, the commission notes the following: the university has a system of information and reporting management. Most of the information is stored in electronic format, which significantly reduces some risks. Widely used are the results of processing university information on the results of recruitment, academic performance, contingent movement, the number of graduates, staffing, the number of publications, business trips, agreements with foreign universities, etc., which are presented in regular reports of the relevant services to the administration and the Academic Council requests of the Ministry of Education and Science of the Republic of Kazakhstan, etc.

At the same time, the EEC, after analyzing the activities of the university in the field of information management, revealed that the capabilities of automated systems for analysis, information management and processing of a large amount of data based on the use of modern ICT and software are not fully used. Further work on conducting training seminars and trainings on the use of automated systems for analyzing and managing information can strengthen the university's capabilities in the operational control and management of SPs, as well as in making decisions aimed at the development of SPs.

### ***Strengths: not revealed.***

***EEC recommendations for the EP 6B05314- "Chemistry", 7M05311- Chemistry, 6B05112- "General Biology", 7M05111- "General Biology", 7M05211- "Geoecology and Environmental Management", 6B11113- "Restaurant Business":***

1. To ensure the involvement of students and teaching staff in the processes of collecting and analyzing information using ICTs for the development and further management of the development of educational programs, decision-making based on them (for example, focus group work protocols, electronic questionnaires, etc.).

**According to the standard "Information Management and Reporting" 17 criteria are disclosed, of which 17 have a satisfactory position.**

### **6.3 Standard "Development and approval of the educational program"**

- ✓ *The university should determine and document the procedures for the development of SPs and their approval at the institutional level.*
- ✓ *SP management must ensure that developed SPs are consistent with established goals, including intended learning outcomes.*
- ✓ *SP management should ensure that there are developed models of the SP graduate describing the learning outcomes and personal qualities.*
- ✓ *SP management must demonstrate the conduct of external expert reviews.*
- ✓ *The qualification obtained upon completion of the SP must be clearly defined, clarified and consistent with a certain level of the NSC.*
- ✓ *SP management should determine the impact of disciplines and professional practices on the formation of learning outcomes.*
- ✓ *An important factor is the ability to prepare students for professional certification.*
- ✓ *SP management must provide evidence of the participation of students, faculty and other stakeholders in the development of SP, ensuring their quality.*
- ✓ *The complexity of the SP should be clearly defined in Kazakhstan loans and ECTS.*
- ✓ *SP management must ensure the content of academic disciplines and learning outcomes for the level of training (bachelor's, master's, doctoral).*
- ✓ *The structure of the SP should provide for various types of activities corresponding to the learning outcomes.*
- ✓ *An important factor is the presence of joint SPs with foreign educational organizations.*

#### **Evidence part**

At the University, the structure, procedure for the development, revision, and examination of educational programs are determined by the Regulations on the design of MOS. Reviewed and recommended by the NMSU No. 3 dated 04.04.2019, PD 11 / 1.18-2018 (<http://www.tarsu.kz/ru/uchebnyi-process.html>). Modular educational programs are approved by the Department of educational and methodical work of TarSU named after M.Kh.Dulati in coordination with employers. The process of developing and approving an educational program includes the following steps:

1. Market monitoring, analysis of the opinions and recommendations of employers, the study of the requirements of the food standard and other standards in the areas of training, the study of trends and experience in the development of educational programs in domestic and foreign universities;
2. Development and discussion of the initial version of the educational program, which is considered at a meeting of the department with the participation of practitioners and graduate students;
3. Obtaining an expert assessment: reviews / recall of employers;
4. Revision of the content of the educational program according to the results of expert evaluation;
5. Approval of the educational program.

Educational programs are considered at a meeting of departments and the Academic Council of the faculty and then approved at a meeting of the Academic Council by the Chairman of the CSS, rector of M. Kh. Dulaty TarSU (protocol No. 7 dated 03/26/2019) and entered into the register of the Ministry of Education and Science of the Republic of Kazakhstan. Responsibility for the quality of educational programs lies with the graduating department.

For all accredited SPs, Models of graduates have been developed, in which general (intellectual, communicative, social) and professional competencies are reflected, and the

trajectory of a professional orientation is also shown. The qualification obtained upon completion of the SP is clearly defined and corresponds to a certain level of NSC.

External experts of EP 4 of the cluster are practitioners of the corresponding line of activity, they are also involved in the development of OP. According to the EP 6B11113-Restaurant business are hospitality practices - the head of the administration department of Zhambyl Hotel LLP Zh.A. Akhmetzhanova ; POEP Chemistry - Head of the Training and Methodological Center of Kazphosphate LLP - M. Orazova; Head of the Technical Training Department of Kazphosphate LLP - S. Khusainov ; for Biology - director, Zhambyl Veterinary Research Institute named after Academician K.I.Skryabin, associate professor Tlepov A.A., Umarov G.M., director of the State Utility Enterprise under the right of economic management, Zhambyl Regional Blood Center of the Health Administration of the Akimat of Zhambyl Region; according to the EP Geoecology - representatives of Kazphosphate LLP and the Department of Ecology. They have extensive experience in the specialty and make a significant contribution to the education and development of the relevant industries in this region. Assessment of the quality of educational programs is carried out through a critical analysis and examination of the developed programs with the participation of employers for compliance with the needs of the labor market.

Educational programs are developed on the basis of and in accordance with the Law of the Republic of Kazakhstan "On Education" dated July 27, 2007 No. 319-III SAM (as amended on December 3, 2015); GOSO (Order of the Ministry of Education and Science of the Republic of Kazakhstan No. 604 of 10/31/2018); Model rules for the activities of educational organizations of the corresponding types (Order of the Ministry of Education and Science of the Republic of Kazakhstan dated 10.30.2018, No. 595); The rules of the organization of the educational process on credit technology of training (as amended on October 12, 2018, order of the Ministry of Education and Science of the Republic of Kazakhstan No. 563); By the order of the Ministry of Education and Science of the Republic of Kazakhstan dated 10/13/2018. No. 569 "On the Approval of the Classifier of Training Directions with Higher and Postgraduate Education"; By the Order of the Ministry of Education and Science of the Republic of Kazakhstan "On approval of the List of areas for training personnel with higher education, training in which is not allowed in external studies and correspondence courses" No. 530 of 02.10.2018; By the order of the Ministry of Education and Science of the Republic of Kazakhstan No. 603 dated 10/31/2018. "On the approval of model curricula for the cycle of general education disciplines for organizations of higher and (or) postgraduate education"; National Qualifications Framework. Approved by the protocol of the Republican tripartite commission on social partnership and regulation of social and labor relations dated March 16, 2016; General Classifier of Economic Activities (GCTEA). Approved by the Order of the Committee for Technical Regulation and Metrology of the Ministry of Industry and Trade of the Republic of Kazakhstan dated December 14, 2007 No. 683-od .; National classifier of occupations of the Republic of Kazakhstan (developed by the Center for the Development of Labor Resources JSC, introduced by the Ministry of Labor and Social Protection of the Republic of Kazakhstan, approved and put into effect by Order of the Committee for Technical Regulation and Metrology of the Ministry of Investment and Development of the Republic of Kazakhstan dated May 11, 2017 No. 130-od); Qualification reference book for managers, specialists and other employees (approved by order of the Ministry of Labor Protection of the Republic of Kazakhstan dated May 21, 2012 No. 201-ø-m), as well as qualification reference books of the relevant ministries; Professional standard "Food Industry". Approved by order of the National Chamber of Entrepreneurs of the Republic of Kazakhstan "Atameken" No. 284 dated 22. 10. 2018; Qualification requirements for educational activities, and a list of documents confirming compliance with them (approved

by order of the Ministry of Justice of the Republic of Kazakhstan dated 11.06.2016 No. 391 of the Ministry of Justice of the Republic of Kazakhstan dated March 11, 2016 No. 394. It is registered with the Ministry of Justice of the Republic of Kazakhstan May 24, 2016 No. 13733).

All SPs of this cluster are provided with educational and methodological documentation and have the following structure:

Title page

Agreement sheet indicating the developers of the OP

1. General Provisions

2. Characteristics of the professional activities of the graduate

3. The competencies of the graduate, formed as a result of mastering the SP

4. The content of the SP

5. The structure of the program. Documents governing the content and organization of the educational process for the implementation of SP (RUE)

6. Resource support SP

7. Characteristics of the university environment, ensuring the development of the general competencies of graduates

8. Annex (expert opinions, protocol on amendments)

The annual update of the EP is 30%. EP management guarantees the representativeness of interested parties involved in the formation and revision of the EP development plan.

In accordance with SES RK in the curriculum, the ratio of the volume of courses of the cycles of OOD, DB, majors is maintained. The SP displays the logical sequence of mastering cycles, disciplines, practices, final certification, ensuring the formation of general and special competencies. The complexity of the disciplines of cycles in Kazakhstan and ECTS credits, as well as in hours, with the allocation of lectures, laboratory, practical (seminar) classes, independent work of students under the guidance of a teacher and independent work of a student, all types of professional practice, intermediate certification are indicated.

The planning and organization of educational activities at the university are based on curricula. Curricula are divided into standard (SSP), individual (ISP) and work study program (WSP). In SSP, the complexity of each academic discipline of the compulsory component and each type of educational activity (practice, state exams, writing and defense of the thesis) is determined in credits, and the optional component for each cycle of academic disciplines is indicated by the total number of credits.

The content of all academic disciplines is determined by standard curriculum (SSP) and work curriculum (Syllabus), SSPs approved by the Republican educational and methodical associations. Syllabus is developed in all disciplines of the curriculum and approved by the head of the department. Syllabus of elective disciplines is developed on the basis of a curriculum approved by the M.Kh. Dulaty TarSU. In addition to SSPs, catalogs of electives (QE) are compiled annually, the contents of the catalog are approved by employers and approved by the dean of the faculty. The QE contains prerequisites, postrequisites, a brief description of the courses, purpose, competencies and expected results. QEs are available at the departments and on the student portal (<http://portal.tarsu.kz/>).

After the procedure for selecting disciplines on the basis of SSP and QE, an individual student curriculum is formed - ISP. Based on the student's SSP and ISP, a specialty curriculum is formed - RUE.

An important role in the training of specialists, namely in the formation of their professional competencies, is played by various types of practices: educational,

professional, pedagogical and research (master's), which is held at TarSU named after M.Kh.Dulati in accordance with PD 11 / 13.03-2016 "Regulations on professional practice", the program of practice is drawn up and approved at the department. Students undergo professional practice on the basis of the partners of the department, there are agreements:

- for SP 6B11113-Restaurant business, the main practice bases are: Gaukhar Tas Restaurant, Khan Torah Restaurant, Taraz Hotel.
- for SP Biology, the main bases of practice are: LLP Research Institute of Water Management, Zhambyl Veterinary Research Station, etc. ;
- for SP Chemistry, the main practice bases are Kazphosphate LLP, the Department of Natural Resources and Environmental Management of the Akimat of Zhambyl Oblast, etc. ;
- For the SP Geoecology and environmental management, the main practice bases are the Department of Ecology and other enterprises.

### ***Analytical part***

As a result of the analysis of the submitted documentation, the commission noted that the pre-requisites and post requisites, goals, summary of the discipline, expected learning outcomes (LO) and competences in the courses are presented in the QE, but at the same time it was revealed that the expected learning outcomes and competencies are not specified, not harmonized and compiled in a generalized form without taking into account the specificity and uniqueness of the academic program, including the level of training, there are certain differences between the LO and the graduate model, which also reflects poorly specific and unique spine SP.

It is important to bring the content of MSP and LO in the study programs of this cluster into line with the content of the Graduate Model, and also show the impact of each course and practice on the formed LO.

EEC, as a result of the analysis of the studied documents, concluded that employers were involved in the development of the SP of this cluster, but at the same time, based on the results of the interview with the teaching staff, students and employers, it concludes that if teachers are actively involved in the development of the SP, then employers students do not participate in this work systematically. According to the SP "Geoecology and Environmental Management", the commission notes that the interaction with stakeholders is poor and requires further development and strengthening, it is necessary to specify the procedure and frequency of meetings and work with stakeholders using different forms (for example, workshEP shops, focus groups, round tables and etc.). In SP 6B05112 – General Biology, the same course is included in the cycle of basic and core courses under different codes. The course "System Biology" is duplicated in the undergraduate and graduate programs.

The management of EP 6B05112 – General Biology, 7M05111 – General Biology needs to take measures to ensure that the results of training and the content of academic courses match the level of training for undergraduate and graduate programs. In the master's program 7M05111 – General Biology, the phrases "basic knowledge of the basic laws ...", "will have fundamental fundamentals ...", "modern ideas about the fundamentals ..." are used in the wording of competencies and learning outcomes of SP, which does not correspond to the level of SP.

The EEC notes that similar academic programs of domestic universities are being monitored, but similar studies of foreign universities are monitored to a lesser extent, which can help identify international partners and expand international relations in the direction of developing joint academic programs, especially since faculty members went abroad to improve professional qualifications .



Issues of professional certification are relevant for graduates of the SP, as they are assigned a certain qualification and a certificate is issued confirming the formation of practical competencies, they can be entered into the register of professional associations as potential job seekers. Certification is carried out with the support of professional associations, which, through a set of measuring tools, determine the level of professional training of the graduate. The Commission revealed that this area of activity in the framework of the development of the EP has not yet been reflected in the activities of M.Kh. Dulaty TarSU also requires development and attention from the leaders of these SPs. This is especially true for the SP “Restaurant Business”, since there are professional standards in this area, there is a certification center under the Kazakhstan Association of Hotels and Restaurants, which has a state license for this type of activity and is engaged in certification of graduates of the SP RB&H and Tourism.

EEC, as a result of interviews with students, teachers, undergraduates, revealed that not all of the cluster EPs have multilingual groups. In multilingual groups, it is important to apply new approaches and teaching technologies in order to improve the quality of students' language competencies.

A questionnaire of teaching staff conducted during the visit of the EEC IAAR showed that the university leadership pays enough (50.4%) to the content of the study program. At the same time, the EP content “very good” meets the needs of teaching staff - 40.2%, “good” - 57.5%.

Questioning of students showed that the level of speed of response to feedback from teachers regarding the educational process is fully satisfied - 74.2%; partially - 21.7%; fully satisfied with the quality of teaching - 75.3%, partially - 17.2%

***Strengths for SP 6B05314- “Chemistry”, 7M05311-Chemistry, 6B05112- “General Biology”, 7M05111- “General Biology”, 7M05211- “Geoecology and Environmental Management”, 6B11113- “Restaurant Business”:***

- clearly defined qualifications obtained at the end of the SP, which corresponds to a certain level of the NSC.

***EEC recommendations for the SP 6B05314- “Chemistry”, 7M05311-Chemistry, 6B05112- “General Biology”, 7M05111- “General Biology”, 7M05211- “Geoecology and Environmental Management”, 6B11113- “Restaurant Business”:***

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

2. Create conditions for preparing students for professional certification.

3. To consider the issue of harmonization of educational programs with leading universities of the Republic of Kazakhstan implementing such SPs and to continue work on the development of joint SPs with universities in the near and far abroad

4. Bring the content of the MPE and the “Graduate Model ...” in terms of describing the areas and types of professional activity, the competencies of the graduate, to show the influence of disciplines and professional practices on the formation of LOs and their compliance with goals.

***Additionally for SP:***

***6B11113-Restaurant business:***

5. Consider the possibilities of preparing students for the Restaurant Business business training program for professional certification, for example, use the capabilities of the Professional Certification Center under the Kazakhstan Association of Hotels and Restaurants (KAH&R, Almaty), which have a state license for this type of activity.

### **7M05211- Geoecology and environmental management:**

6. Specify the procedure and frequency of meetings and work with stakeholders (for example, workshEP shops, focus groups, round tables, etc.).

#### **EEC findings:**

According to the standard "Development and approval of the educational program" 12 criteria are disclosed, of which according to the EP:

- SP 6B11113-Restaurant business, 6B05314, 7M05311 Chemistry, EP 7M05211-Geoecology and environmental management have 1 strong position, 10- satisfactory and 1 -- suggests improvement;

-SP 6B05112 - General Biology, 7M05111 - General Biology have 1 strong position, 8 - satisfactory and 3 - suggest improvement.

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

*The university should conduct monitoring and periodic assessment of the EP in order to ensure the achievement of the goal and meet the needs of students and society. The results of these processes are aimed at continuous improvement of the OP.*

✓ *Monitoring and periodic assessment of EP should consider:*

o *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;*

o *Changes in the needs of society and the professional environment;*

o *Workload, academic performance and graduation;*

o *The effectiveness of student assessment procedures;*

o *Expectations, needs and satisfaction of students with training in SP;*

o *Educational environment and support services and their relevance to the goals of the SP.*

✓ *The university and the SP management must provide evidence of the participation of students, employers and other stakeholders in the revision of the SP.*

✓ *All interested parties should be informed of any planned or taken actions in relation to the SP. All changes made to the SP should be published.*

✓ *SP management must ensure that the content and structure of the SP are reviewed taking into account changes in the labor market, requirements of employers and the social request of the company.*

#### **Evidence part**

Monitoring and Periodic Evaluation of SP at M.Kh.Dulaty TarSU named after is carried out on the basis of internal regulatory documents within the framework of the quality management system IS-9001: 2015.

The University introduced the practice of systematic internal control of the educational process. To do this, by order of the rector, independent commissions are formed from among competent teachers and staff who study and analyze the activities of the departments in implementing educational programs. The commission reports its findings to the Academic Council of the University. The purpose of such monitoring is to identify the strengths and weaknesses of the practical activities of the departments and develop recommendations for addressing shortcomings and disseminating positive experience. Key performance indicators are determined based on the criteria of departmental normative documents and university resources (scientific potential of the faculty, teaching and laboratory base, library fund, etc.). Feedback in the form of a report on the corrective actions of the department allows you to track the implementation of the plan to eliminate deficiencies. The rights and functions of such commissions are regulated by the documents: Regulation 15.01-2013 "Monitoring the implementation of the mission, goals, objectives of the university", STU 03-2017 "Internal audit", STU 05-2017 "Corrective actions".

Regular review and assessment of the EP are regulated, including by the following procedures of the QMS of the university:



PD 11 / 1-1.10-2014. Regulation on the design of educational programs based on the formation of students' competencies, rev.1 (Project No. 232.1 of 05.28.2014)

PD 11 / 1.18-2018. Regulation on the design of modular educational programs (Project No. 63 dated 02.14.2018)

PD 11 / 1.19-2018. Academic rules for the organization of the educational process at M.Kh. Dulaty Taraz State University (Project No. 63 dated 02.14.2018).

PD 11 / 1.01-2019 "Regulation on the planning, control and reporting in the educational process."

All provisions, reporting on them are published in the internal network "Public".

Monitoring of students' academic achievements is carried out in accordance with the requirements of regulatory documents of the Ministry of Education and Science of the Republic of Kazakhstan in the AIS "Platonus" system. To assess the satisfaction of internal needs, the Department for Monitoring the Quality of Education every academic period organizes and conducts a survey of students, teachers and employees of the university: "Teacher through the eyes of the student", "Quality of the educational process", "Satisfaction with the organization of industrial practice", "Clean session", within which the content of the studied disciplines is evaluated; teaching methods; teaching strategy and subject study; equipment used, information technology and resources; educational literature; knowledge assessment processes; Timetable of classes; accessibility of the library and other teaching aids.

Each year, the university carries out a rating assessment of teaching staff, departments, and faculties. The results of the rating analysis are used by the university management when making decisions on the extension of contracts, staff appointments and when determining the size of the salary increases for teaching staff, heads of departments, deans to their deputies.

Within the framework of the annual reporting / rating, issues of updating the content of programs, changing the needs of society and the professional environment, academic performance and graduate competencies of students; students' expectations, needs and satisfaction; the educational environment and support services are evaluated at the faculty, departments, faculties and universities and are considered at meetings of collegial bodies.

Table 4.1 Dynamics of student performance SP

SP	2016-2017		2017-2018		2018-2019	
	%	GPA	%	GPA	%	GPA
6B05314-Chemistry	92,5	3,22	95,35	3,16	100	3,18
7M05311-Chemistry	93,2	3,88	99,75	3,69	100	3,73
6B05112- "General Biology"	100	3,6	100	3,7	100	3,6
7M05111- "General Biology"	100	3,6	100	3,7	100	3,7
7M05211- "Geoecology and environmental management"	100	3,69	100	3,5	100	3,63
6B11113- "Restaurant business"	97,3	3,33	92,7	3,33	95,5	3,33

An internal assessment of the effectiveness and efficiency of SP is carried out by deans and graduating departments. The vice-rector for academic affairs of the university oversees this type of activity. Questions of the effectiveness of the educational program and the quality of knowledge of students are considered at meetings of collegial bodies - the Academic Council, SMCU, dean's office, and meetings of departments. The SP is reviewed once a year, taking into account changes in the labor market, the needs of employers, the latest scientific achievements in specific disciplines and the social request of the company (PD 11 / 1.18-2018 Regulation on the design of modular educational programs).

Participation in the development of assessment processes, analysis and continuous improvement of SP are also regulated in the job descriptions of teachers. Every year, in each educational program, taking into account the views of students and employers, changes are made up 10% of the number of academic disciplines.

The system of external control of the effectiveness of the implementation of the SP includes the procedures SAC, EESA, state certification and accreditation of the university, industrial practice, review of diploma and master's projects. The university participates in the ranking of the educational programs conducted by the Atameken Scientific-Production Enterprise.

As an indicator of the conformity of the goal of the EP to the demands of the labor market, employment of graduates, feedback from employers on the basis of production practices, the work of the State Autonomous Administration and the implementation of diploma / master projects are regularly analyzed.

Table 4.2 Employment of graduates accredited by SP cluster

№	Cipher specialty	2016-2017		2017-2018		2018-2019	
		total	employed %	total	employed	total	employed
1	6B11113 Catering business	8	5/71,42%	7	7/100%	5	5/100%
2	6B05112 General biology	49	35/100%	35	27/77,1%	55	47/85,4%
3	7M05111 General biology	13	11/84%	11	9/81%	7	4/57%
4	6B05314 Chemistry	13	9/90%	22	17/77,3%	16	16/100%
5	7M05311 Chemistry	2	2/100%	2	1/50%	4	3/75%
6	7M05211 Geocology and environmental management	4	3/75%	3	3/100%	5	5/100%

An example of a survey of employers is a survey of the academic year 2017-2018, "An employer's opinion on the quality of training for a graduate of TarSU named after M.Kh.Dulati" was attended by 73 organizations. The study showed that 77% of the surveyed employers employed TarSU graduates, and 94% of the respondents believed that the level of theoretical training of graduates corresponds to the tasks that it solves in accordance with the position.

The reviewers of theses and master's theses are employees of enterprises and organizations of the Zhambyl region.

According to the SP 6B05314-Chemistry, 7M05311-Chemistry, the faculty of the Taraz State Pedagogical University, Taraz Innovation and Humanitarian University (TIGU) are attracted as reviewers of Sheses and master's theses.

According to the SP 6B05112- "General Biology", 7M05111- "General Biology", the faculty of the Taraz State Pedagogical University and the Taraz Innovation and Humanitarian University (TIGU) are attracted as reviewers of dissertations and master's theses.

According to SP 7M05211- "Geocology and Environmental Management", it is planned for 2018 to attract consultants for master's theses, chief specialist of KazNII VH LLP, senior researcher Ph.D. A. Bayzakova and with TIGU associate professor of the department "Biology, agricultural specialties, geography and tourism".

According to the SP 6B11113- “Restaurant business” of the 2016-2017, 2017-2018, 2018-2019 academic years, the head of the administration department of the Zhambyl Akhmetzhanova Zh.A. Hotel LLP was involved

### ***Analytical part***

According to the self-assessment report, the analysis of the site and portal materials and conversations with the university staff, the university took measures to regulate the process of monitoring and evaluating SP, and its mechanisms are described in the framework of the existing quality management system. In general, all the standard procedures for monitoring and evaluating SP generally accepted in the Republic of Kazakhstan are formalized and implemented.

The mechanisms for reviewing and updating the SP provided for in the framework of the QMS of the University are not fully implemented: insufficient attention is paid to decision-making based on facts. So, for example, in order to increase the competitiveness of SPs and graduates, SP management makes significant efforts to take into account the views of employers and the needs of the regional labor market, but this is almost always expressed by the inclusion / exclusion of individual disciplines from the program. The Commission notes that there are no examples of a deeper study of the content of programs at the level of learning outcomes, of individual sections / topics within disciplines, and also of analysis of SP in order to update the content in accordance with the development of the industry. This is especially important for such a booming industry as biology. This aspect of the assessment of SP requires attention from the management of the SP and mandatory development.

To implement the global dimension of SP and long-term planning, one can also evaluate and consider the experience of developing similar training programs in other countries.

An important element of monitoring SP is informing the general public about all changes made to SP. Posting information on the SP and ongoing changes, mainly on the internal portal, limits the circle of participants to employees and students of the university. In this regard, as part of the ongoing restructuring of the University’s website, it is necessary to provide for the placement of information on publicly accessible pages.

### ***Strengths: not revealed.***

***EEC recommendations for the SP 6B05314- “Chemistry”, 7M05311-“Chemistry”, 6B05112- “General Biology”, 7M05111- “General Biology”, 7M05211- “Geoecology and Environmental Management”, 6B11113- “Restaurant Business”:-*** systematically carry out work on timely informing all stakeholders on the issues of changing the relevant EP in the public sections of the university’s website.

### ***Additionally for SP:***

#### ***6B05112 - General Biology, 7M05111 - General Biology:***

- provide for activities for regular discussion and amendments to the SP on the latest achievements of science and industry (for example, once a year at the scientific and methodological council or scientific seminar of the department).

### ***EEC findings:***

*According to the standard “Continuous Monitoring and Periodic Evaluation of Educational Programs”, 10 criteria are disclosed, of which 9 have a satisfactory position and 1 suggests improvement.*

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

*SP management should ensure respect and attention to various groups of students and their needs, providing them with flexible learning paths.*

- ✓  *SP management should ensure the use of various forms and methods of teaching and learning.*
- ✓  *An important factor is the availability of our own research in the field of teaching methods of educational disciplines of SP.*
- ✓ *SP management should demonstrate the existence of a feedback system on the use of various teaching methods and assessment of learning outcomes.*
- ✓  *SP management should demonstrate support for student autonomy, while also guiding and assisting the teacher.*
- ✓ *SP management must demonstrate the existence of a procedure for responding to student complaints.*
- ✓ *The university should ensure the consistency, transparency and objectivity of the mechanism for assessing learning outcomes for each EP, including the appeal.*
- ✓ *The university should ensure that the procedures for evaluating the learning outcomes of students of SP study meet the planned learning outcomes and program objectives. Evaluation criteria and methods within the framework of the SP should be published in advance.*
- ✓ *Механизмы The university should determine the mechanisms for ensuring the development of learning outcomes by each graduate of EP and ensure the completeness of their formation.*
- ✓  *Evaluators must be proficient in modern methods of assessing learning outcomes and regularly improve their skills in this area.*

### **Evidence part**

The academic policy of the University provides for taking into account the needs of various categories of students: working youth; student athletes, students actively involved in the activities of public organizations; students with special educational needs; foreign students. In order to identify the needs of various categories of students, the data of regularly conducted performance analysis are used in the context of courses, faculties, specialties and students; information is used on the nature of students' appeals to deans / registrar's office / other structural units.

In 2016, admission to the evening department was opened for working youth, where training using distance learning technologies is implemented. Taking into account the needs of students with disabilities and special educational needs, in the academic year 2017-2018, a specialized office, the Center for Psychological Adaptation, was created (11E 11 / 1.16-2017 Inclusive Biological Psychology-Pedagogical Schools of heresy), in which 5 computers are installed, 10 seats, upholstered furniture, special appliances, specialized literature. The needs of this category of students are also taken into account when scheduling classes and exams. The University Library Information Center provides access to educational literature for students with hearing and vision problems.

For successful adaptation, in the conditions of the credit system, freshmen are provided with a reference guide with information on the internal rules, the operation mode of all services, the procedure for paying for tuition, requirements for assessing learning outcomes and a telephone directory. The process of adaptation of foreign students, which proceeds both in the framework of educational activities, and during extracurricular activities, which forms speech and sociocultural competence. Foreign students study in groups with other students, which contributes to the integration of a foreign student in a new socio-cultural life.

Students are also given full right to choose the language of instruction (students have the opportunity of unhindered translation, including into specialized groups with training in three languages).

In multilingual groups, where training is carried out on the basis of the distribution of disciplines in the languages of instruction, conditions are created when it is possible to change the language according to some difficult course (for example, in the discipline "Philosophy" and others).

All educational-methodical documentation is compiled in two languages of instruction (Kazakh, Russian) - catalogs, IUP and RUE, UMKD, work programs, syllabuses, tests, exam tickets. And for students of specialized departments or streams studying a

course in English - UMKD is developed in English. All students receive an individual login and password and have the ability to freely access the site and portal of the university.

To build an individual learning path and vary the content of EP, a systematic list of all disciplines of the component of choice is developed and annually updated - a catalog of elective disciplines that provides for selection. Catalogs of elective disciplines are developed taking into account the interests of students and are updated every year taking into account the needs of the labor market and the development of equipment and technologies. Individual training planning is carried out for the academic year under the guidance of advisers. The list of advisers is approved by the dean of the faculty and submitted to the Registrar's Office. For persons studying with the use of distance educational technologies, a tutor is appointed by the Distance Learning Department.

TarSU organized systematic work on social support, according to the Strategic Development Plan (section 7.3.1.2-7.3.1.5), the following are provided: material support for orphans and children left without parental care, material support for students from low-income and socially vulnerable families ("Regulation on the provision of discounts on payment for students in M.Kh.Dulaty TarSU (PD 11 / 1.01-2018), providing nonresident and foreign students places to stay in student dormitories. Support is provided for talented youth.

For students from socially vulnerable families, it is possible to register in the computer classes of the university or using specially established information kiosks. For students who do not cope with academic requirements, work is organized at the level of the department and teachers. In accordance with the current rules for the organization of the educational process on credit technology, an additional (summer) semester of at least 6 weeks is provided during which students are provided with academic support in preparing for exams by organizing classes both on a paid basis and without payment. In addition, classes in the summer semester are organized in 2 consecutive modules for the convenience of students, which allows students to study prerequisites, organize their training depending on the timing of internships, military training and participation in various events (sports competitions, conferences, participation in student construction teams etc.). During the school year, the schedule of the OH hours is fixed in the schedule, the departments have schedules for consultations of teaching staff, additional information is provided in syllabuses for disciplines, the student can also contact the teacher by e-mail.

On a systematic basis, the innovative content of academic disciplines is being developed (PD 11 / 1-6.01- 2014 Regulation "Introduction of innovative technologies in the educational process of a university"). Responsible for the implementation of the requirements of this criterion is the specially created at the university department of MET (Modern Educational Technologies). At the beginning of each academic year, a schedule of open classes is provided to this department, which is approved by the head of the department. In the schedule of open classes, each teacher plans on the open classes: methodological innovation, educational technologies and interactive methods. In order to introduce innovative pedagogical technologies, a number of events are held: the production of teaching materials (in print and in the form of collections of presentations), training seminars / trainings for teaching staff, faculty meetings with the presentation of best practices, and much more. During the academic year, teachers of the department conduct open classes using innovative teaching methods, develop electronic flipcharts (ActivStudio, ActivInspire) and presentation materials (Microsoft PowerPoint), for example, over the past 5 years, electronic flipcharts (ActivStudio, ActivInspire) and presentation materials have been developed. In addition, content was developed (in Russian and Kazakh) for distance learning as part of the educational program. Every year in May, at the end of the academic year, the Department of MET TarSU holds a competition in various nominations: "Best

Manager”, “Best Flipchart”, “Best Open Lesson”, “Innovative Training Laboratory” in which employees of other universities of Taraz also participate.

The training is successfully combined with extracurricular work and practical training, for conducting classes branches of the department are actively used in production. According to the PSP 11 / 12.03-2017 "Regulations on the department of the department" classes conducted at the branches, are mandatory reflected in the schedule of classes of the university. The practical orientation of the educational process is also facilitated by the practice of inviting production specialists to conduct classes, which creates conditions for improving the quality of training of qualified specialists. There is a branch of the department "Ecology" in production, which was created on the basis of the Department of Ecology in the Zhambyl region. As part of the implementation of the SP 6B05314-Chemistry, 7M05311-Chemistry, a branch of the Department of Chemistry and Chemical Technology operates on the basis of Kazphosphate LLP with the aim of conducting classes in the discipline of General Chemical Technology for performing research work on diploma theses and master's theses.

As part of the implementation of SP 6B05112- “General Biology”, 7M05111- “General Biology”, a branch of the Department of “Biology” operates on the basis of LLP Zhambyl Veterinary Research Institute named after Academician K.I.Skryabin for the purpose of conducting classes in the disciplines Parasitology, Psychoneuroimmunology and educational practice 2 courses, industrial practice 3 courses.

In the framework of the implementation of SP 7M05211- “Geocology and Environmental Management”, a branch of the Ecology department operates on the basis of the Department of Ecology with the aim of conducting classes in the disciplines: “Management of environmentally safe processes and production”, and the protection of term papers and dissertations.

As part of the implementation of the SP 6B11113 - Restaurant Business, a branch of the Tourism and Service Department operates on the basis of Zhambyl Hotel LLP with the aim of conducting classes in the discipline of the International Hotel Industry, Quality Management of Hotel and Restaurant Service, and Fundamentals of Industry hospitality”, “Restaurant and hotel industry”.

SP 6B05314-Chemistry, 7M05311-Chemistry, 6B05112- “General Biology”, 7M05111- “General Biology”, 7M05211- “Geocology and Environmental Management”, 6B11113- “Restaurant Business” provide a wide range of different forms of monitoring and evaluation of the expected learning outcomes: current and mid-term control (in-class interviews, testing on subjects of academic discipline, examinations, defense of term papers, discussions, trainings, work in a trilingual format, including online mode, etc.), intermediate certification (testing in sections of the academic discipline , exam, protection of practice reports), final state certification (defense of thesis).

Also, the teaching staff of the departments “Ecology”, “Biology”, “Chemistry and Chemical Technology” and “Tourism and Service” conducts scientific work together with students and undergraduates of the departments. Students annually participate in republican and university scientific conferences.

Table 5. Research activity of students

Academic year	6B05314-Chemistry	7M05311 - Chemistry	6B05112- General biology	7M05211- Geocology and environmental management	6B11113- Restaurant business
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2014-2015	22	4	13		5
2015-2016	29	7	14		3
2016-2017	30	9	11	4	5
2017-2018	40	12	54	6	4
2018-2019	34	14	35	8	4

As part of student-centered learning, a new questionnaire was introduced in 2016, "Assessment of course by students." After testing for 4 semesters and demonstrating its effectiveness, information about it was displayed on the cover page of the syllabus to familiarize all students. When assessing academic courses, such aspects as the content of the course as a whole, the provision of course with educational literature and other information sources, the accessibility and pithiness of syllabus, the correspondence of the content of the course and syllabus, and the informative value of the taught course are considered. Questionnaire results are processed by the Registrar's Office. Access to assessment information given by students in both courses and teachers is available to deans of faculties, who can use it to take preventive measures when necessary.

As part of the improvement of the monitoring system for monitoring the results of training and the introduction of on-line solutions for teachers and students, the process of introducing the Web module "Electronic Journal of the Teacher" and ensuring constant and unhindered access of students to information continues. The mechanisms for an adequate assessment of the results of independent work are given in syllabuses, which are distributed and explained to students at the beginning of the semester.

During the session, in order to ensure openness and transparency, the following will be organized: an appeal commission, a commission of teachers on duty for exams (in order to separate learning and control processes), a committee of student observers, a quality control committee for the development and use of control and measuring materials.

To ensure objectivity, the exam is attended by a teacher - proctor (PD 11 / 13.05-2017 Regulation "The procedure for organizing and technology for conducting intermediate certification of students" was approved by order of the rector of November 23, 2017 No. 451), which is required to monitor compliance with all established rules for examinations. After the exam, the proctor submits the coded work (answer sheets) of the students to the Registrar's Office, which are transferred to the teacher for verification and grading. The university also introduced the practice of automated student seating in the exam.

For students who do not cope with academic requirements, the department organizes the corresponding work, issues relating to student performance are discussed at meetings of the department.

The student has the opportunity to be involved in decision-making at the university level, to represent the interests of students in corporate governance bodies (university councils), to form an educational trajectory. So, the 2nd year student Səpi A. participated in the working group for the development of EP in the working group for the development of EP 6B05314-Chemistry; for the EP 7M05311-Chemistry, 2-year student, Bakytzhan E.; 3rd grade students Nurlan Zh and Makhashova G., Muratova A., Eshembek A.; according to EP 6B05112- "General Biology", 7M05111- "General Biology"; 2nd year undergraduate

Nurlybek U., 6B11113- "Restaurant business" 3-year students Akhmetova G., Suleiman S. were introduced according to EP 7M05211- "Geoecology and environmental management"

Students and undergraduates studying participate in the development and preparation of a modular educational program, and are also members of specially created examination commissions, research executors of the departments "Chemistry and Chemical Technology", "Biology", "Ecology", "Tourism and Service" are included in the student dean's office, as well as participate in trainings, round tables, conferences, scientific, cultural circles and other events organized by M.Kh. Dulaty TarSU.

### ***Analytical part***

It should be noted that the University and the EP leadership demonstrate a focused policy on the implementation of measures to take into account the needs and individual characteristics of students in both educational and extracurricular activities. Due to objective circumstances, a number of measures, as a rule, are not implemented - due to the small contingent, especially in the Russian branch, it is not possible to implement the selection of trajectories and the formation of groups taking into account individual characteristics. Lack of groups may also become a limitation for the implementation of individual innovative teaching methods (team methods). The Commission notes as a good practice the measures taken to implement inclusive education.

Attention is paid to teaching staff and the introduction of a variety of forms and methods of training, including using digital technology, which is also a good practice. However, the effectiveness of these technologies is evaluated only at the level of student satisfaction within the framework of routine annual questionnaires and through mutual visits of faculty. In this regard, the management of SP needs to take into account the need to develop a system for evaluating the effectiveness of new teaching methods in terms of improving learning and achieving final results, i.e. development research in education. The university has a department of modern educational technologies, which could take on this function. Attention needs to be paid to expanding the range of pedagogical innovations.

The assessment system is implemented in a standard format in accordance with the Model Rules of the Ministry of Education and Science of the Republic of Kazakhstan, including the format and forms of assessment, appeal procedures and summer semester. The electronic journal and the practice of preliminary publication of requirements and assessment criteria makes a significant contribution to ensuring the transparency and objectivity of the assessment system. Training of teaching staff participating in the assessment procedures is carried out, however, the available facts indicate that this process is not systematic. EP management should pay attention to the fact that the range of forms of final control used is limited to testing, an oral / written exam; term papers (projects), practice reports, and this does not allow to fully ensure compliance of assessment procedures with the planned learning outcomes taking into account their typology (for example, assessment of practical skills). This direction should be further developed.

During the interviews and questionnaires, it seemed that undergraduate students did not fully understand the essence of credit technology and the role of independent work in training, had little knowledge of the implemented innovative teaching methods, personal development programs and clubs, and were not motivated to participate in language training programs. In this regard, attention should be paid to involving students in the discussion and assessment of pedagogical approaches, to conduct training / information within the framework of curatorial hours. The commission also draws attention to the fact that almost 10% of students are not satisfied with the availability and quality of student



health services, the teaching methods in general, and almost 20% are not satisfied with student lounges.

***Strengths: not revealed.***

**EEC recommendations for the SP 6B05314- "Chemistry", 7M05311-Chemistry, 6B05112- "General Biology", 7M05111- "General Biology", 7M05211- "Geoecology and Environmental Management", 6B11113- "Restaurant Business":**

1. Provide an assessment of the effectiveness of the implementation of innovations according to the criteria for improving the quality of education / achievement of learning outcomes;

2. Introduce new technologies and assessment methods, in accordance with the learning outcomes and objectives of the program. To provide, in terms of the development of educational programs, teaching staff training on modern methods for assessing RO - practical skills and competencies of graduates;

3. To provide for systematic explanatory work among students on the principles of credit technology of education and the role of self-education.

***EEC findings:***

*According to the standard "Student-centered learning, teaching and performance assessment" 10 criteria are disclosed, of which 9 have a satisfactory position and 1 requires improvement.*

**6.6 Standard "Students"**

*The university should demonstrate a policy for the formation of the contingent of students in the context of EP from admission to graduation and ensure the transparency of its procedures. Procedures governing the life cycle of students (from admission to completion) must be defined, approved, published.*

- ✓ *SP management must demonstrate the implementation of special adaptation and support programs for newly enrolled and foreign students.*
- ✓ *The university must demonstrate the conformity of its actions to the Lisbon Recognition Convention.*
- ✓ *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 Recognition Information Centers" ENIC / NARIC in order to ensure comparable recognition of qualifications.*
- ✓ *SP 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.*
- ✓ *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.*
- ✓ *SP management should make every effort to provide students with places of practice, facilitate the employment of graduates, and maintain contact with them.*
- ✓ *The university must provide graduates with a degree 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.*
- ✓ *An important factor is monitoring the employment and professional activities of graduates of SP.*
- ✓ *SP management should actively encourage students to self-education and development outside the main program (extracurricular activities).*
- ✓ *An important factor is the existence of an existing alumni / association.*
- ✓ *An important factor is the availability of a mechanism for supporting gifted students.*

***Evidence part***

Policies and procedures for admitting applicants to M.Kh.Dulaty Taraz State University is consistent with the mission, vision, strategic goals of the university and is officially published on the university website (<http://www.tarsu.kz>). Graduate students are admitted to the Tatar State University on the basis of the "Model Rules for Admission to Education in Educational Organizations Implementing Educational Programs of Higher Education". All regulatory legal acts on the admission of applicants are posted on the university's website and on the information boards of the admissions committee. The

admissions committee maintains pages on popular social networks Instagram, Facebook and VKontakte, where relevant information is posted as it becomes available.

Questions of the organization of admission, the formation of the contingent, as well as the results of admission are considered at meetings of departments, deans, administration and the Academic Council. In order to attract the most trained applicants, the university carries out systematic career guidance work throughout the calendar year, which includes a number of the following activities:

- providing students with information to choose their future profession through acquaintance with the university, its faculties, departments and specialties, for example, when students attend events held at the university;
- career guidance of teachers in fixed schools, colleges of the city and Zhambyl region, according to the approved schedule;
- holding various kinds of cultural events;
- Creation of a special campaign team from among the teaching staff and students, members of creative teams.

The departments also organize regular trips to the districts and cities of the region for consultations, competitions, contests, etc. Open door days are held, at which applicants are given information about educational programs, the material base, opportunities and prospects of the chosen specialty are demonstrated. Information on the events held is posted on the University website.

Departments constantly monitor the need for specialists in the field of training to ensure the validity of the preparation of graduates.

For timely informing applicants and students, information stands and advertising billboards located on the territory of the university and in the city are also used. LED screens are actively used to advertise the university and cover events.

Table 6.1. The contingent of students for each study program in the context of forms and languages

Academic year	Total students Full-time / part-time / distance	Grant students		Students on a fee basis		Number of students expelled
		Russia n	Kazakh	Russian	Kazakh	
5B091200- Restaurant and hotel business						
2014-2015	40 / 0 / 0	2/0/0	19/0/0	9/0/0	10/0/0	0/0/0
2015-2016	38 / 0 / 0	2/0/0	12/0/0	8/3/0	9/2/0	7/0/0
2016-2017	33 / 8 / 4	2/0/0	8/0/0	4/4/1	18/4/3	1/0/0
2017-2018	34 / 13 / 4	1/0/0	5/0/0	6/2/1	22/9/3	0/2/0
2018-2019	46 / 9 / 12	1/0/0	7/0/0	11/1/6	19/7/4	9/ 1 / 2
6B11113- Restaurant business						
2019-2020	22 / 0 / 1	0/0/0	3/0/0	6/0/0	13/0/1	0/0/0

5B060700- Biology						
2014-2015	245 / 12 / 0	2/0/0	11/0/0	20/2/0	207/10/0	5/0/0
2015-2016	252 / 35 / 0	2/0/0	12/0/0	29/3/0	200/32/0	9/0/0
2016-2017	266 / 34 / 0	1/0/0	12/0/0	33/5/0	214/26/0	6/3/0
2017-2018	250 / 46 / 0	1/0/0	8/0/0	28/10/0	211/36/0	2/0/0
2018-2019	40 / 47 / 0	0/0/0	11/0/0	25/6/0	179/37/0	23/4 /0
6B05112- General biology						
2019-2020	29 / 0 / 4	0/0/0	2/0/0	2/0/2	25/0/2	0/0/0
5B060600- Chemistry						
2014-2015	63 / 13 / 0	0/0/0	0/0/0	2/3/0	61/10/0	0/0/0
2015-2016	67 / 14 / 0	0/0/0	0/0/0	2/3/0	64/9/0	1/2/0
2016-2017	65 / 19 / 2	0/0/0	1/0/0	5/2/0	59/15/2	0/2/0
2017-2018	79 / 17 / 0	0/0/0	1/0/0	6/2/0	70/14/1	2/1/0
2018-2019	75 / 34 / 0	0/0/0	3/0/0	5/2/0	59/28/2	8/ 4 /0
6B05314- Chemistry						
2019-2020	66 / 0 / 10	5/0/0	32/0/0	0/0/1	29/0/9	0/0/0

The contingent of undergraduates

Academic year	Total students	Grant students		Students on a fee basis		Number of students expelled
		рус	каз	рус	каз	

6M060700 – «Biology»						
2014-2015	16	6	5	3	2	-
2015-2016	18	13		5		2
2016-2017	25	14		11		1
2017-2018	16	10		6		-
2018-2019	22	20		2		-
2019-2020	15	15		-		-
6M060600 – «Chemistry»						
2014-2015	10	4	4	1	1	-
2015-2016	7	4		3		1
2016-2017	6	4		2		2
2017-2018	6	6		-		-
2018-2019	16	11		5		-
2019-2020	11	7		4		-
7M05311 – «Chemistry»						
2019-2020	4	3		1		-
6M091100 – «Geoecology and Environmental Management»						
2014-2015	6	3	2	-	-	1
2015-2016	6	6		-		-

2016-2017	7	7	-	-
2017-2018	8	8	-	-
2018-2019	9	9	-	-
2019-2020	4	4	-	-
7M05211 – «Geoecology and Environmental Management»				
2019-2020	3	3	-	-

Considering mainly the regional nature of the university and the socio-economic level of the main contingent, for all applicants to TarSU, discounts on tuition fees of 10-15% are provided; separate discounts of up to 50% for students from families of socially vulnerable segments of the population, orphans who have guardians; from 30 to 50% discount - for students with disabilities; 100% discount - for students who do not have parents and are left without parental care.

The organization of educational events among students is carried out under the leadership of the Deputy Dean for educational work and senior curators.

The university also organized the process of adaptation of foreign students. Foreign students study in multinational groups. Over the past 5 years, foreign undergraduates have not been trained in the Chemistry, Geoecology and SCP, Restaurant and Hotel Business. At the Department of Biology in the magistracy in the period 2016-2018 in EP 7M05111- "General Biology" studied one foreign student M. Khaitimetov

The University actively collaborates on the recognition of qualifications with the Center for the Bologna Process and academic mobility of the Ministry of Education and Science of the Republic of Kazakhstan, which is part of the ENIC-NARIC information network.

According to the program of external academic mobility:

- In the 2014-2015 academic year, a student of EP 6B11113- "Restaurant Business" Artykbaev Karshyk at Kastamonu University (Turkey); third-year student of the specialty 5B091200- "Restaurant business and hotel business" Meirmanova Zh.M. at the United States Institute in a 5-week summer school in the USA (Washington) under the program "Study of the United Institute on Women's Leadership"; The program of academic mobility in the summer school for 4 students of the 2nd and 3rd year at the Almaty University of Technology on 06.06.2015-13.06.2015. (Azimkhan R., Abilova A., Eleusinova J., Meirmanova J.)

- in the 2015-2016 academic year - 1st year undergraduate student of EP 7M05311- Chemistry of Satkymbaev Aigerim at the University of Castile La Mancha (Spain); students of EP 6B11113- "Restaurant business" —Akhmetova G., Kutay B., Bisibekova M., Mukhtar A. had practical training in Turkey (13 MANAVGATANTALYA) at the 5-star VONRESORTGOLDENCOAST hotel; third-year student of EP 6B11113- "Restaurant business" Meirmanova Zh.M. at the Almaty Technological University.

- in the 2016-2017 academic year: 2nd year student of EP 6B11113- "Restaurant business" Dana Sembaeva was sent to study at the Katowice school of economics university (Poland, Katowice) under the program of external academic mobility.

- in the 2017-2018 academic year: a student of EP 6B11113- "Restaurant business" Sembaeva Danapo underwent semester training at the University of Jaume (Spain) under the program of external academic mobility; 1-2 year students of EP 6B11113- "Restaurant Business" at the "International Summer School-2018" in ATU.

The University has a Center for the Bologna Process, academic mobility and international cooperation, helping graduate students to participate in the Academic Mobility Program (internal and external) to gain additional experience and competencies, and to develop intellectual and cognitive skills in universities of Kazakhstan and abroad. The Department of Academic Mobility of the Department of International Cooperation and Academic Mobility, the Department of Academic Affairs of TarSU and IIEP are the service units responsible for the implementation of academic mobility of students.

The main criteria for competitive selection for participation in academic mobility are high student academic performance.

The university has developed a mechanism for the recognition of learning outcomes obtained during academic mobility, additional, formal and non-formal learning. Recalculation of previously disbursed loans (results of additional and non-formal education) is carried out in accordance with the "Regulation on the policy of academic recognition of learning outcomes at M.Kh.Dulaty TarSU»PD 11 / 13.04-2017. The basis for credit transfer are: Kazakhstan model for calculating loans according to the ECTS type, RI 11 / 1-4.01-2016 "Work instruction for students on academic mobility and joint educational programs using distance learning technologies" (approved by order of the rector dated 05/05/2016 No. 206), PD12 / 7.01-2018 "Guidelines for the organization of academic mobility of students" (approved by order of the rector dated December 11, 2018, No. 529), the developed forms "List of coordination of disciplines and student credits for academic mobile programs", "Recognition sheet of credits obtained under the program of academic mobility", student transcript. The basis for the transfer of previously mastered disciplines of the same name are the documents provided (academic transcript, transcript).

All types of practice are provided with teaching materials, the internship is executed in the form of reports that are recorded and executed in accordance with the requirements of the QMS of M.Kh. Dulaty Taraz State University named.

As practice bases, agreements were concluded with the following enterprises in the region: KazNIVH LLP, Ecology Department for Zhambyl Region of the Committee for Environmental Regulation and Control of the MEP RK, GKP Zhambylgips, GKU Shu-Talas Basin Inspectorate for Regulation of Use and Protection of Water Resources Committee on Water Resources ", Farm" Yerzhan "Zhambyl region Zhualinsky district, TarazEnergOortalyk JSC, KAZFOSFAT LLP, EuroChem-Karatau LLP, Amangeldy Gas Processing Plant LLP, Republican State Scientific Research Enterprise Zhambyl Veterinary Research Institute named after Academician K.I.Skryabin, Department of Health Zhambyl oblast "Blood Center", State Reserve "Aksu Zhabagly" and others. If necessary, depending on the topic of the thesis, master's thesis, the student can be sent to other organization-specific specialties.

In the departments, to increase the level of vocational training of graduates and their employment, the following types of work are used:

- conclusion of agreements on cooperation between the university and enterprises for the training of specialists;
- participation of enterprise specialists in the development of RUEs;
- organization of internships and practices, coordination with employers on topics of term papers and dissertations (projects), master's theses, the use of integrated topics for graduate works and projects, the application of the practice of transferring term papers to graduation projects.

According to the order of the Ministry of Education and Science of the Republic of Kazakhstan No. 125, a graduate is given a diploma supplement (transcript), which contains grades for each academic discipline by a point-rating letter system with an indication of its volume in loans. In addition to the transcript, from 2019 the university will issue an application for the EUROPASS diploma.

To maintain feedback and monitor the professional activities of graduates of different years, the TarSU Alumni Association, the university website (<http://asv.tarsu.kz/>) and social networks (VK, Instagramm, Facebook) are used.

To support graduates and their subsequent professional development, the Career Center staff conducts consultations and trainings on the topic "How to participate in Bolashak, DAAD, Erasmus international programs, organizes briefings by reputable universities to explain the conditions for admission to graduate and doctoral programs.

The sports club "Sunkar" organized the work of sports sections in 15 sports: volleyball, futsal, tennis, boxing, tozizmalak, karate-do, all-around, darts and others. The students created good conditions for playing sports. Their opinion is taken into account when designing educational programs (the introduction of new disciplines for professional development, an increase in hours for independent work).

Students and undergraduates of the department "Chemistry and Chemical Technology" took part in the international Case Championship organized by EuroChem OJSC. A team of students and undergraduates of the department took part in the final of the Case Championship in Moscow (RF) in February 2018 and 2019.

At the Department of Biology, students of SP 6B05112- "General Biology" Ibraimov M participated in the championships of the Republic of Kazakhstan among youth in karate-do, who took 2nd place in the Kazakhstan Cup, in karate -do Shotokan 2018, in 2019 1st place, D. Dzhumabekov is prize-winner of the championships of the Republic of Kazakhstan and the CIS in athletics.

Students take part in all activities conducted by the department, faculty, university. So, students of SP 6B11113- "Restaurant Business" participated in organizing and conducting the V International Turkic World Tourism Symposium, which took place within the walls of the university from June 13 to 15, 2019; 1st year students Beguliyeva Aknur, Bekuly Akmaral, Zharylkasynova Alinura, Makataev Marlen, Seitkhanov Miranshah, Halmatova Dinara; 2 courses of Abuzakir Sholpan, Aziretova Kamshat, Kalykova Ayman; 3 courses Arnabek Bayan, Fazylbek Zhannur, Karabai Aida (SP 6B11113 - "Restaurant business") took an active part in organizing catering and accommodation for guests of the symposium.

The university has 3 comfortable hostels. The places in the dormitories are allocated according to APC 13 / 2.07-2018 Regulation on the Student dormitory of M.Kh. Dulaty TarSU. Information on availability is available to students on the portal. You can also download the application form there. When issuing seats, the social status of students is necessarily taken into account. Living conditions in hostels are improving every year.

Teachers of the department in accordance with the schedule on holidays are on duty in dormitories from 18-00 to 23-00. Students have free access to medical care, a library, canteens and buffets, gyms.

In order to identify gifted youth, the Center for the Development of Students' Creativity carries out active propaganda work at the beginning of each academic year. The Student Creativity Development Center works closely with regional and city akimats, departments of internal politics, youth policy, culture, the sports department, the regional court, the prosecutor's office, the department of internal affairs, and also with organizations and institutions. The Center provides assistance, and students take part in all cultural events on a city, oblast and republican scale, contribute to the cultural life of the



oblast and city, improve performing skills and delight with their achievements. For example, students Koishymanova Zhansaya, Zhappaberdieva Albina, Kabilova Madina (SP 6B05112- "General Biology") participated in model studios, dance ensembles, choreographic studio "Asylay", "Gauhartas", dance groups "Tarsu.kz", in Delphi games.

The university has its own Student Television Studio (rector's order on creation - No. 322 of August 29, 2014), which is the center of educational, practical and creative training. TV studio employees, teachers and students take part in various national and regional competitions and present their products in video format. The student television studio released 302 units of video production from 2016 to March 2018 - in the areas of discussion of program documents of the President and the government, in career guidance, on student issues, on the opening of sports events and on the occasion of the university's 60th anniversary.

Undergraduates studying in SP 7M05211- "Geoecology and SCP" are actively involved in research work. The results of dissertations are introduced into the educational process. Annually, undergraduates participate in republican and university scientific conferences. For example, 2 year undergraduate Nurlybek U.S. In the 2018-2019 academic year, she participated in a university research competition and took 3rd place.

There are no data on research projects on SP Chemistry.

According to SP 6B11113-Restaurant business, there are no funded grant scientific topics, but there is an initiative scientific topic Development of a program for the development and improvement of the competitiveness of restaurant business enterprises-Orynbaeva U.A., studies within the framework of the topic are designed for the period from September 2018 to June 2021.

According to SP 7M05211 - "Geoecology and SCP" the defense of theses and master's theses is carried out according to the order of the rector of TarSU. All works submitted for protection are carried out according to the specialty direction. The topics of work are determined by the requests of educational organizations and the problems of research problems solved by teachers of the graduating department.

To ensure the relevance of the dissertations carried out by the SP "7M05211-Geoecology and SCP", orders were received from enterprises: the Department of Ecology to complete master's theses on the following topics:

To analyze ways to improve the waste management system of the Zhambyl region. (undergraduate Nurlybek U., head A. Zhumadilova)

Thermal energy of the city of Taraz and its impact on the environment (using the example of CHPP-4) (undergraduate B. Toleubekov, head A. Musaev)

The results of the commercialization of SP 6B05314- "Chemistry", 7M05311- Chemistry, 6B11113- "Restaurant business" were not presented.

Directions and topics of the research work of the Department of Biology:

1. "Fauna, bioecology and economic importance of Hymenoptera (INSECTA, Lepidoptera) in the Zhambyl region" scientific adviser: Tumenbaeva N.T. PhD Doctor, Associate Professor

2. "Improving the technology of biohumus production with the study of earthworms", supervisor: Tumenbaeva N.T. PhD Doctor, Associate Professor

3. "Research by ecogenetic methods of the influence of the " genotype-environment "on the qualitative, signs of introduction of species in the South-East zone of Kazakhstan" supervisor: Ziyaeva G.K., Ph.D.

4. "Bioresources and flora of the Zhambyl region" supervisor: Baytelieva AM, Ph.D., associate professor

5. "Breeding of beneficial insects, ticks and bumblebees for biological control of pests and the experience of organic production in greenhouse agrocenoses and

commercialization of bioagents produced in Kazakhstan”, supervisor: Tumenbaeva N.T. PhD, Doctor, Associate Professor  
6. “Implementation of innovative technologies for the cultivation of tulip species in the region of the Zhambyl region with the preservation of the gene pool of tulips“ Regel”(Tulipa greigii). Academic Supervisor: Tumenbaeva N.T., Sarseeva GB, Karabaeva A., Masters: Rashidyzy M., Bakhaeva A., Bekmolda N. Research work carried out by the Department of Biology under household contracts:  
1. "Increasing the yield of perennial leguminous herbs using new techniques" Scientific adviser: Tumenbaeva N.T. PhD, Doctor, Associate Professor  
2. “Study of bioecologists and natural opportunities in transgenic river basins (Kazakhstan-Kyrgyzstan) and the use of their results in the economy”, Scientific adviser: Ph.D. G. Ziyaeva

### **Analytical part**

The contingent of students is formed in accordance with standard rules. Given the high competition in the educational services market, the SP management is pursuing an active contingent formation policy using all available levers. According to SP 6B05314-Chemistry, the method has been preserved compared to the previous years of this specialty, the structure of the contingent has changed in the direction of increasing the share of students under the grant, which is noted as a positive trend in terms of the demand for the program.

The main contingent in the SP 6B05112 – General Biology, 6B11113-Restaurant business is made up of students on a paid basis. At the same time, there is a significant decrease in admission for these specialties compared to previous years: biology - 10 times, restaurant business - 2 times. For all accredited SPs of the cluster magistracy, there was a decrease in admission compared to the EP programs of the corresponding specialties in previous years, this decrease is especially significant for SP 7M05111 - General Biology (almost 15 times) - 1 person was accepted on a paid basis, which by the time of the EEC visit expelled of his own free will. The indicated trends, as well as the lack of doctoral studies in the SP 6B05112 – General Biology are serious risks that require additional consideration by the SP management.

The student’s “life cycle” is regulated according to the legal acts in the field of education of the Republic of Kazakhstan and all information is available on the university’s website. Despite the efforts made to develop academic mobility, low mobility indicators, especially outgoing external mobility.

Despite the existence of formalized mechanisms for ensuring and recognizing the results of academic mobility (regulations, relevant units), the examples of mobility available to the EEC Commission apply to students of SP 6B11113-Restaurant business: there are practically no examples of both external and internal mobility in other accredited SPs. The interview revealed that only a few students speak a foreign language at a level sufficient to participate in external mobility. In this regard, the Commission noted that the creation of additional opportunities for learning English and other foreign languages could contribute to improving this situation. Management should also pay attention to the development of internal academic mobility. Scientific internships are an indispensable part of the master's program, which is especially important given the limited educational and scientific resources (SP 6B05112 – General Biology, 7M05111 – General Biology).

Employment indicators, in general, are comparable with republican values. It should be noted that in this direction the management of the SP carries out a targeted and proactive policy that has improved employment indicators, especially for master's programs. This is also facilitated by close ties with representatives of the regional labor

market, a network of practice bases, the practice of opening branches of departments at production bases.

Examples of the implementation of the mechanism for the recognition of formal learning outcomes are the availability of shortened training programs.

In problems, students indicate (5-10% of the questionnaire respondents) the availability of counseling on personal problems, the availability of health services for students, satisfaction with the existing educational resources of the university, the availability of computer classes and Internet resources. It is necessary to pay attention to the creation / improvement of conditions in the student lounges, since almost 20% of students expressed dissatisfaction with this side of the infrastructure.

The Commission noted that the resource of the Alumni Association is not used enough - it exists formally, and requires additional attention both from the leadership of the university and the leadership of the SP.

### **Strengths: not revealed.**

**EEC recommendations for the SP 6B05314- "Chemistry", 7M05311-Chemistry, 6B05112- "General Biology", 7M05111- "General Biology", 7M05211- "Geoecology and Environmental Management", 6B11113- "Restaurant Business":**

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

2. To intensify the work of the University Alumni Association, to ensure coordination of its activities for more active participation in the development and management of SPs, to facilitate the employment of graduates, etc. Update the relevant section on the site.

Additionally, for SP 6B05112 - General Biology, 7M05111 - General Biology:

3. To envisage measures to ensure the compulsory passage of scientific internships for students of educational programs M05111 – General Biology in leading research and production centers, including in other regions of the Republic of Kazakhstan, as well as near and far abroad, including increasing the language competence of students;

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

*-The university should demonstrate a policy for the formation of the contingent of students in the context of SP 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.*

*- SP management must demonstrate the implementation of special adaptation and support programs for newly enrolled and foreign students.*

*- The university must demonstrate the conformity of its actions to the Lisbon Recognition Convention.*

*- 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.*

*- SP 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.*

*- The university should provide an opportunity for external and internal mobility of students of SP, as well as assist them in obtaining external grants for training.*

*- SP management should make every effort to provide students with places of practice, facilitate the employment of graduates, and maintain contact with them.*

*-The university must provide graduates with a degree 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.*

*- An important factor is monitoring the employment and professional activities of graduates of SP.*

*- SP management should actively encourage students to self-education and development outside the main program (extracurricular activities).*

*- An important factor is the existence of an existing alumni / association.*

*An important factor is the availability of support for gifted students.*

### **Evidence part**

The commission got acquainted with the qualitative and quantitative composition of teaching staff of the teaching staff, teaching staff management principles: teaching staff planning, monitoring the quality of teaching, monitoring the implementation of the individual teaching staff plan, methods for assessing the satisfaction of teaching staff and students, and the policy for the formation of teaching staff.

The employment and assessment of the teaching staff is carried out on the basis of the Order of the Minister of Education and Science of the Republic of Kazakhstan dated April 23, 2015 No. 230 "On the Approval of the Rules for the competitive replacement of the posts of the teaching staff and scientific workers of higher educational institutions".

According to the results of the faculty survey conducted within the framework of the EEC IAAR, the university provides teachers with the opportunity to continuously develop their potential for "Very Good" (38.9%) and "Good" (56.7%).

The university ensures the completeness and adequacy of individual planning of the teaching staff for all types of activities, monitoring the effectiveness and efficiency of individual plans. The calculation of the complexity of the training load is based on the work curricula of the educational program of specialties, according to the Rules of the organization of the educational process on credit technology of training.

According to the staff list of the staff, staffed teaching staff for the entire training period. However, the indicators on the qualitative and quantitative composition of the teaching staff do not confirm the availability of the personnel potential necessary for the implementation of educational programs that meets the qualification requirements for licensing educational activities.

The average rate for the degree of teaching staff graduating from accredited educational programs for departments is 54%.

Table 7.1. Quantitative and qualitative composition of faculty in the context of SP

Name of specialties	Total academic staff / of which full-time	Doctor of Science, Professor / Doctor, Ph.D	Cand. sciences / masters	Teacher with academic degree and degree / of them staff	Art-timers		Leading classes at the State the language	Age (people)				
					Total	Including scientist		Total	Including with the scientist.	Up to 35 years of staff.	35-50 years old	Over 50 years
6B05314 -"Chemistry"	8/47	/2	3/22	6/26			5	4	1	5		
7M0531 1-"Chemistry"	0/9			0								
6B05112 -"General Biology"	4/33	/2	5/15	7/15			4	7	1	6		
7M0511 1-"General Biology"		/2										
7M0521 1-"Geoecology and"	/7	/1		/3								

environmental management"													
6B11113 -Restaurant business	0/10	/1	/5	/5				0					

To monitor the competence of the university staff, the administration, the personnel department and the heads of the respective structural units periodically evaluate the competence of existing staff and their compliance with the requirements established by the job descriptions, by attending "open" classes, attending classes, questioning students, etc.

According to the results of the faculty questionnaire organized by EEC IAAR, teachers evaluate the support of the university and its leadership in the faculty research endeavors as "very good" - 51%, "good" - 47%.

The results of scientific studies of teachers are reflected in scientific articles, published journals, speeches at scientific conferences at various levels, etc. There are projects financed by the university at accredited academic institutions.

Table 7.2. The number of scientific publications of the faculty

<b>In the department of "Chemistry and Chemical Technology"</b>	<b>2015/2016</b>	<b>2016/2017</b>	<b>2017/2018</b>	<b>2018/2019</b>
In international scientific journals Tomson Reuters, Scopus	6	7	6	14
Top-rated journals (RSCI and others)	2	-	-	-
Magazines recommended by KKSON MON RK	5	9	1	18
Magazines of the near and far abroad	15	15	12	18
International conferences	44	40	55	54
Monographs	3	3	1	3
Training Aids	2	2	2	5
Electronic textbooks	2	2	3	3
<b>Total</b>	<b>79</b>	<b>78</b>	<b>80</b>	<b>115</b>
<b>In the department of "Biology"</b>				
In international scientific journals Tomson Reuters, Scopus	1	8	4	3
Top-rated journals (RSCI and others)	13	17	14	13
Magazines recommended by KKSON MON RK	13	47	10	10
Magazines of the near and far abroad				
International conferences	49	16	30	32
Monographs	-	1	1	4
Training Aids	2		6	1
Electronic textbooks				1
<b>Total</b>	<b>78</b>	<b>89</b>	<b>65</b>	<b>64</b>
<b>In the department of "Tourism and service"</b>				
In international scientific journals Tomson Reuters, Scopus	-	2	2	1
Top-rated journals (RSCI and others)	-	1	-	-
Magazines recommended by KKSON MON RK	3	-	2	1
Magazines of the near and far abroad	-	3	6	1
International conferences	21	11	19	23
Monographs	-	1	1	-
Training Aids	1	-	1	2
Electronic textbooks	-	-	1	1
<b>Total</b>	<b>25</b>	<b>18</b>	<b>32</b>	<b>29</b>
<b>In the department of "Ecology"</b>				
In international scientific journals Tomson Reuters,	-	1	1	1

Scopus				
Top-rated journals (RSCI and others)	1	1	6	5
Magazines recommended by KKSON MON RK	5	5	4	5
Magazines of the near and far abroad	7	10	11	11
International conferences	26	28	31	33
Monographs	2	1	1	1
Training Aids	5	1	6	4
Electronic textbooks	11	17	20	21
Total	<b>57</b>	<b>64</b>	<b>80</b>	<b>81</b>

The state of the moral and psychological climate in the departments is characterized by stability, a creative attitude to the fulfillment of their duties. Labor and executive discipline at the proper level. University teachers take an active part in the public life of the city and the Republic.

A survey of teaching staff conducted during the visit of the EEC IAAR showed that:

- The teaching staff satisfies the content of the educational program at "very good" - 40%, "good" - 57%;
- the feedback level of faculty with management satisfies "very good" - 30%, "good" - 63%;
- Teachers can use their own innovations in the learning process to "very good" - 64%, "good" - 35.4%;
- How the work on academic mobility is set to "very good" - 30%, "good" - 58%;
- How is the work on raising the qualification of teaching staff set to "very good" - 43%, "good" - 47%;
- The involvement of faculty in the process of making managerial and strategic decisions is "very good" - 28%, "good" - 64%.

### **Analytical part**

In the course of work, when familiarizing ourselves with the teaching methodology during class visits, based on interviews with students, graduates, employers, and the commission, it was noted that in general, teachers use interactive teaching methods, but the teaching methodology should be improved in connection with the development of innovative teaching technologies.

An analysis of the documents and an interview with the leaders of the SP, teaching staff showed that teachers are not very active in research, little funded research. Students are not so actively involved in research activities. In an interview with teachers, they noted that there was not enough time to engage more actively in science due to the overload of activities and other types of work. In this regard, a proposal was made to introduce one creative day per week to enhance research work.

The commission also noted that the academic mobility of faculty is not sufficiently developed. Programs and the number of teachers participating in academic mobility should be expanded.

It is also necessary to intensify the participation of teachers in joint research with foreign partners and international projects.

In order to expand the areas of scientific research and maintain the qualifications of teaching staff in accordance with the current level of development of biological science and industry, the guidelines of SP 6B05112 - General Biology, 7M05111 - General Biology, it is necessary to use the possibilities of targeted training of scientific and pedagogical staff more widely, to provide for professional development of teaching staff in relevant areas of biology on the basis of leading universities and research centers of the country;

Information about teachers on the university's website is insufficiently presented (scientific areas, taught disciplines, etc.), there is no external mobility of faculty, systematic professional training of personnel in areas of specialization in leading scientific centers of the Republic of Kazakhstan and abroad is required.

The following observations were identified:

- There is no academic mobility of teaching staff of accredited academic staff, there is no participation of teaching staff in foreign scientific projects.

Despite the fact that it collaborates with practitioners, has branches at partner enterprises of the SP, attracts practitioners to the learning process, identified certain obstacles that are associated with bureaucratic delays. So, during an interview with lecturers and department heads, it was revealed that the process of inviting practitioners to guest lectures requires consistent coordination with higher authorities and is extended in time. This does not contribute to the rational and effective interaction with practitioners, which is provided for by modern educational programs.

**Strengths: not revealed.**

**EEC recommendations for SP 6B05314- "Chemistry", 7M05311- "Chemistry", 6B05112- "General Biology", 7M05111- "General Biology", 7M05211- "Geoecology and Environmental Management", 6B11113- "Restaurant Business":**

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

2. To consider the possibility of internships at faculty and program managers in other educational organizations that implement such educational programs.

3. DevelEP a training plan for faculty and ensure its implementation.

4. To analyze the publication activity of all teaching staff and develEP measures to improve the qualitative and quantitative indicators

5. Strengthen the work to increase the level of English language proficiency using various mechanisms, for example: reducing the teaching load, regular salary increases for English speakers / teachers, organizing courses / clubs, reimbursing the costs of certification exams, etc.

6. Reduce bureaucratic formalities and approval procedures with the university leadership to attract practitioners to teaching.

**Additionally for**

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

7. To develEP a program for the development of contractual projects with enterprises and relevant organizations to stimulate research.

8. To include in the staff of the department teachers who have long-term experience in enterprises in the field of specialization in SP. For SP 6B05112 - General Biology, 7M05111 - General Biology:

9. To envisage measures to expand the profile of specialization of teachers of the Department of Biology in modern areas of biological science - molecular and cellular biology, bioinformatics, etc.

**EEC findings:**

According to the standard "faculty" 12 criteria are disclosed, of which 11 have a satisfactory position and 1 implies improvement.



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

- ✓ *SP management must demonstrate the adequacy of material and technical resources and infrastructure.*
- ✓ *SP management should demonstrate the existence of support procedures for various groups of students, including information and counseling.*
- ✓ *SP management must demonstrate compliance of information resources with the specifics of the SP, including compliance with:*
  - ✓ *technological support for students and teaching staff in accordance with educational programs (for example, online training, modeling, databases, data analysis programs);*
  - ✓ *library resources, including a fund of educational, methodological and scientific literature on general education, basic and majors in paper and electronic media, periodicals, access to scientific databases;*
  - ✓ *examination of the results of research, final works, dissertations on plagiarism;*
  - ✓ *access to educational Internet resources;*
  - ✓ *the functioning of WI-FI in the territory of the educational organization.*
- ✓ *The university should strive to ensure that the educational equipment and software used to master educational programs are similar to those used in the relevant industries.*
- ✓ *The university must ensure compliance with safety requirements in the learning process.*
- ✓ *The university should strive to take into account the needs of various groups of students in the context of SP (adults, workers, foreign students, as well as students with disabilities).*

### **Evidence part**

According to the information on the university’s website, the University carries out educational activities on the basis of the long-term strategic document “Development Program for 2019-2022”. Learning resources at the university correspond to the plans for the implementation of the educational program: human, material, technical and socio-cultural. The software used to organize the educational process, create and demonstrate information content is presented. SP is provided with a fund of educational, methodological and scientific literature on general education, basic and majors in paper and electronic media in the context of the languages of instruction.

Sufficient conditions have been created at the university to ensure the accessibility and quality of education, to continuously improve the qualifications of teaching staff and to increase the effectiveness of managing SP. The material, technical, informational, human and socio-cultural resources correspond to the activities, missions, vision and strategies of the University and plans for implementing the SP.

For the organization of educational activities, students are provided with a guidebook. The university has normative documentation on the organization and educational and methodological support of the educational process, the organization of research and educational work, available for students in the university’s library, at the department and on the university’s internal website.

The University has a student support service, which for all categories of students provides the opportunity to get acquainted with the requirements for the educational process, financial discipline, behavior, get advice, create an individual educational trajectory, organize independent work, gain access to reading rooms and computer classes outside school hours, take part in the work of public associations and university management.

For effective and regular analysis of the adequacy of resources and support systems for students in the university conducted sociological research. The degree of satisfaction and wishes of students to educational programs, the level of teaching and social conditions are revealed.

Classrooms comply with sanitary and hygienic standards for educational classrooms of universities of the Republic of Kazakhstan. The existing classroom fund of SP as a whole provides the need for training rooms for students, which ensures the organization of training sessions. The total training area used complies with regulatory indicators, sanitary and fire service standards. There are conclusions of SES and fire service.

The library as a whole is provided with literature on all specialties of the university. The library fund is constantly replenished with UML, periodical literature. There is a fund

of literature on electronic and magnetic media. The electronic library fund is accessible from each computer of the university.

Table 8.1 Provision of educational, teaching and scientific literature in the context of specialties for the 2018-2019 academic year.

Nº	Books on SP	RMEB	IPRbooks	Ecat.tarsu	Total
1	6B11113 Restaurant business	23	4	5	32
2	6B05112 General biology	210	778	43	1031
3	7M05111 General biology			51	51
4	6B05314 Chemistry	812	408	233	1453
5	7M05311 Chemistry			241	241
6	7M05211 Geocology and environmental management	200	150	4	354
	SP magazines		IPRbooks	Lan	Total
1	6B11113 Restaurant business		2	9	11
2	6B05112 General biology		35	84	119
3	7M05111 General biology		25	45	70
4	6B05314 Chemistry		-	13	13
	Name of indicator	Indicator			
1	Total number of seats in the library, including computer classes				900 s
2	The total number of copies of educational, methodological and scientific literature in the library for students of SP over the past 10 years				150 184 ex.
	6B11113 Restaurant business				7802 ex
	6B05112 General Biology				42933 ex.
	7M05111 General Biology				
	6B05314 Chemistry				12497ex.
	7M05311 Chemistry				2080 ex.
	7M05211 Geocology and environmental management				
3	Funds spent 2019 on the acquisition of traditional periodicals for all accredited SPs				6 000 000 tenge
	Of these, the funds spent on the following OP:				
	6B11113 Restaurant business				218128 tenge
	6B05112 General Biology				
	7M05111 General Biology				574046 tenge
	6B05314 Chemistry				
	7M05311 Chemistry				91211 tenge
	7M05211 Geocology and environmental management				599728 tenge

The educational process is provided by professional computer programs: Operating System, Office Suite, Graphic Editors, Audio-Video Editors, Web Design and Visual Project Software, Project Automation System (CAD), DeskTOP Publishing System, Database Management System, Antivirus software.

The university has its own WEB portal ([www.tarsu.kz](http://www.tarsu.kz)) On the Internet, in which access to the university's unified information and educational environment is open.

Table 8.2 Information about information security

Name of indicator indicator	indicators
Network Connectivity Yes	yes
Connection speed to the INTERNET network at least 1 Mbps	96 m/bit/sek
Number of LANs	2
The total number of computer units (pcs)	502
The number of units of computer technology used in the educational process (pcs)	427
The number of computers suitable for online testing (pcs)	427
Total number of computer classes	22
Availability of a university electronic library <a href="http://www.lib.tarsu.kz">www.lib.tarsu.kz</a>	<a href="http://www.lib.tarsu.kz">www.lib.tarsu.kz</a>

The results of a student survey conducted during the visit of the EEC IAAR showed:  
 - the availability of computer classes and Internet resources: "Completely satisfied" - 95.8%, "Partially satisfied" - 4.2%, "Partly not satisfied" - 0%, "Not satisfied" - 0%;  
 - high quality of services in libraries and reading rooms: "Completely satisfied" - 91.7%, "Partially satisfied" - 8.3%, "Partly not satisfied" - 0%, "Not satisfied" - 0%;

### Analytical part

In general, educational resources and student support systems meet the qualification requirements: there are the necessary computer classes, workshops and laboratories equipped with educational equipment. At the same time, the commission draws the attention of the management of the SP and the university to the insufficient equipment of SP 6B05112 - General Biology, 7M05111 - General Biology to ensure the necessary spectrum and relevance of practical experience of students in the program profile: there is an insufficiency of the herbarium fund, the fund of wet and micropreparations, there are no laboratories for biochemical physiological studies. The educational and research laboratories / bases presented for the review of EEC either do not correspond to the profile of the study program (for example, the laboratory of phytochemistry) or are insufficient in terms of the range of topics covered (greenhouse "Zhylyzhay"). This can be seen, among other things, on the topics of diploma / master projects, in which the vast majority of research is carried out in the field of agrobiolgy / veterinary medicine and biodiversity in the Zhambyl region. Modern molecular biological research methods are available only to individual students at the master's level SP 7M05111 – General Biology under the conditions of research practice bases.

It is also worth noting the weak Wi-Fi coverage area throughout the university.

The EEC notes that the operation of educational equipment does not take into account the safety requirements established in TR TS 010/2011 "On the safety of machinery and equipment".

According to the results of the survey, the availability of library resources - 75%; classrooms, classrooms for large groups - 76%; cabinets for small groups -78%; lounges for students - 59%; Computer classes and Internet resources are completely satisfied with 73% of students; available computer classes -73%;

**Strengths: not revealed.**

**EEC recommendations for the SP 6B05314- "Chemistry", 7M05311-Chemistry, 6B05112- "General Biology", 7M05111- "General Biology", 7M05211- "Geoecology and Environmental Management", 6B11113- "Restaurant Business":**

1. Continue work on installing ramps for people with disabilities, guiding markings and color signs and signs for visually impaired students and staff in the university buildings.

2. Continue work on covering individual academic buildings with a Wi-Fi network, amplifying the signal and increasing throughput in the existing coverage area.

**Additionally for SP**

**- 6B05112- General Biology, 7M05111 General Biology, 6B05314, 7M05311 Chemistry:**

3. Set safety requirements for the operation of equipment in accordance with the provisions, standards and requirements of TR TS 010/2011.

**- 6B05112 General Biology, 7M05111 General Biology**

4. To provide for planned equipment with educational laboratory equipment according to OP6B0511 General Biology in accordance with the profile of the studied disciplines.

**- 7M05311 Chemistry:**

5. Strengthen the material and technical base with scientific instruments for conducting relevant physical and chemical research, and equipment similar in the relevant fields of activity of graduates, for example:

a. NMR - relaxometer series minispec mq-one

b. Analytical balance, with an accuracy of at least 4 digits

**EEC findings:**

According to the standard "Educational resources and student support systems" 10 criteria are disclosed, of which according to the SP:

- 6B11113-Restaurant business, 7M05211- Geoecology and environmental management, 6B05314-Chemistry, 7M05311-Chemistry have a 10 satisfactory position.

- 6B05112, 7M05111 - General biology have 8 satisfactory position and 2 suggest improvement.

## **6.9. Public Information Standard**

*- The information published by the university within the framework of the SP should be accurate, objective, relevant and should include:*

- ongoing programs, indicating expected learning outcomes;
- information on the possibility of qualification at the end of the SP;
- information on teaching, training, assessment procedures;
- information on passing grades and training opportunities provided to students;
- Information on employment opportunities for graduates.

*- SP management should use a variety of methods of disseminating information, including the media, information networks to inform the general public and interested parties.*

*-Public awareness should include support and clarification of national development programs of the country and the system of higher and postgraduate education.*

*-The university should publish audited financial statements on its own web resource, including in the context of SP.*

- The university should demonstrate the reflection on the web resource of information characterizing the university as a whole and in the context of educational programs.
- An important factor is the availability of adequate and objective information about the faculty of teaching education, in terms of personalities.
- An important factor is informing the public about cooperation and interaction with partners within the framework of SP, including with scientific / consulting organizations, business partners, social partners and educational organizations.
- The university should post information and links to external resources based on the results of external evaluation procedures.
- An important factor is the participation of the university and implemented SPs in various external assessment procedures.

### **Evidence part**

M.Kh. Dulaty TarSU openly publishes complete and reliable information about the activities of the university, the rules for admission of applicants, educational programs, terms and forms of study, international programs and partnerships of the university, contact and other information useful for applicants and students. Teachers of the departments participate in events aimed at informing applicants, students, undergraduates and all interested parties.

Faculty and university students systematically inform the general public about the activities of M.Kh. Dulaty TarSU through the following forms:

- The official Internet resource of the university [www.tarsu.kz](http://www.tarsu.kz);
- Internet library resource with access to the electronic library [www.lib.tarsu.kz](http://www.lib.tarsu.kz);
- distance learning information system [www.cde.tarsu.kz](http://www.cde.tarsu.kz);
- social networks Instagram, Facebook, V Kontakte, Twitter, Youtube;
- speeches to teachers of the city of Taraz and the Zhambyl region at the methodological and August meetings;
- publications in republican, regional and city / trade union mass media;
- participation in the television programs of the Jambyl agency, etc. The articles contain information about the university carrying out comprehensive work to increase the educational services provided, fulfilling the main directions of the 100 Concrete Steps program.

Information about educational programs is constantly published on the website, the university portal, information stands, booklets, the number of students enrolled in programs, and teachers who provide training.

Feedback from the public through the Rector's blog is prompt. After the next appeal or question is published in the blog, an answer is published during the working day.

The university holds meetings of the rector, vice-rectors, deans, department heads with students, employers, teachers and employees, where each participant in the meeting can ask any question to any of the leaders and get reliable information.

Student portal ([portal.tarsu.kz](http://portal.tarsu.kz)) - a personalized interface (login) provides students with the following information; personal data on academic achievements; information about financial transactions; personal data (contacts, date of birth, IIN, etc.); background information, including university rules and regulations. The student portal includes the ability to send messages from a user of the university administration.

### **Analytical part**

Analysis of the information presented on the site showed that the results of the university are not reflected in full. The information on cooperation and interaction with partners within the framework of the SP is not sufficiently posted, including with scientific / consulting organizations, business partners, social partners and educational organizations.

Assessment of satisfaction with information on the activities of the university, the specifics and progress of the implementation of the SP is carried out annually by means of questionnaires, surveys, feedback, and also through the rector's blog. A survey of students

conducted during the visit of the EEC IAAR showed that –86.7% were completely satisfied with the students' knowledge of the courses, academic programs, and academic degrees, and –13.3% were partially satisfied.

EEC NAAR, on the basis of interviewing and questioning of employees, faculty and students, familiarization with the educational infrastructure of the university and various documents, notes the following:

**Strengths: not revealed.**

**EEC recommendations for the SP 6B05314- "Chemistry", 7M05311- "Chemistry", 6B05112- "General Biology", 7M05111- "General Biology", 7M05211- "Geoecology and Environmental Management", 6B11113- "Restaurant Business":**

1. To ensure publication in relevant sections of the university's website of up-to-date information on educational programs, including: learning outcomes, personalities of teachers; updating information on the educational programs and models of the graduate in the "Applicant" section, informing the public about the progress in the implementation of the SP in three languages, the SP Development Plans, the electronic teaching staff portfolio, the results of external evaluation procedures and ratings.

2. To ensure public awareness of the progress in the implementation of the SP on the university website in the state, Russian and English languages.

**EEC findings:**

According to the standard "Public awareness", 13 criteria are disclosed, of which 12 have a satisfactory position and 1 requires improvement.

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

### **SERVICES**

#### **Evidence part**

The development of the educational program 6B11113-Restaurant business is aimed at obtaining graduates of the necessary theoretical and practical training, practical skills.

The current state of training within the framework of the SP is supported by teaching materials, an annual update of the topic of dissertations, as well as the introduction of new elective disciplines, taking into account the recommendations of employers.

The analysis of QED demonstrated the existence of disciplines and competencies aimed at the formation of graduates of knowledge in the field of psychology and skills in the field of communication, analysis of personality, interaction and culture of behavior: "Psychology", "Professional ethics and etiquette in the service sector", etc. demonstrated the existence of disciplines, conducting seminars teaching innovative techniques, safety skills in the workplace, the availability of self-training skills, entrepreneurship skills in this area: "Self-knowledge", "1C-enterprise", "Occupational Safety", "CAP in the restaurant and hotel industry", "Economics of hospitality enterprises."

There is a training laboratory "Technology for the organization of public catering and service", where students have the opportunity in practice to acquire the skills of serving, preparing simple drinks, etc.

The faculty annually takes part in the university competition "Best Multimedia Product". The forms of interactive learning used by teachers are shown in Appendix 16.

Monitoring the impact of innovation in the educational process on learning outcomes is carried out at various levels. At the departments - through the system of mutual attendance of training sessions, where interactive teaching methods are used, through discussion at methodological seminars. At the university - through the organization of master classes, advanced training of teaching staff at courses, trainings, acquaintance with new teaching methods that teaching staff introduces into the educational process (Appendix 16).

Students of SP Restaurant business are actively involved in scientific and public work (table). But at the same time, the commission notes a downward trend, which is explained by the separation of students of the Russian Children's State Children's Library in the areas of preparation "Restaurant Business" and "Hotel Business" as part of the independence of universities and the creation of a register of new educational programs.

Table Scientific and public activity of students of SP Restaurant business, number of people

Academic year	RSPO	Scientific projects, contests	Scientific student conferences	Student publications
2016-2017	3	11	5	15
2017-2018	3	7	6	10
2018-2019	3	5	3	8

In order to familiarize students with the professional environment and relevant issues in the field of specialization, as well as to acquire practical skills based on theoretical training, the education program provides for various types of practices. The departments concluded agreements for professional practice, which defined the responsibilities of the departments, the base enterprise and students. The departments have developed guidelines for organizing and conducting practices, training programs for practitioners (Appendix 24). At the end of the practice, students submit reports in the approved form.

For the purposes of employment and career guidance, the teaching staff of the department liaises with graduates who, in conjunction with the departments, conduct some events: Open days, Olympiads, etc. An annual job fair is held to establish contacts with enterprises, identify personnel needs of the domestic business, and also employ graduates University (figures 6.9 and 6.10 self-report). The event is attended by representatives of hospitality enterprises (restaurants, cafes, hotels) of the city and region.

### **Analytical part**

An analysis of the feedback of employers and managers of training and production practices at the SP Restaurant Business indicates that there is close interaction with the practice bases, there is a branch of the department at the Zhambyl Hotel. To improve the quality of teaching disciplines, the SP management attracts practitioners, so on the basis of this branch, practical work is carried out on the discipline "Hotel and Restaurant Business Technology", which is conducted by the manager of this enterprise.

At the same time, the EEC commission, during interviews with students, as well as while studying the submitted documents, revealed an insufficient number of guest lectures, and also heard from students a proposal to provide them with summer internship opportunities abroad at hospitality enterprises, for example, in Turkey, the Agreement on cooperation is available.

**Strengths: not revealed.**



**EEC recommendations:**

**For SP 6B11113-Restaurant business**

1. To expand the possibilities of gaining experience and the formation of practical skills for students in the SP Restaurant business during summer internships and practices at hospitality enterprises abroad, using the Cooperation Agreement with Antalya (Turkey), as well as the opportunities that the tourism market offers for students of this specialization

**EEC findings:**

According to the standard “Standards in the context of individual specialties”, 6 criteria are disclosed, of which 6 have a satisfactory position.



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

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

Strengths: not revealed.

**Standard "Information Management and Reporting"**

Strengths: not revealed.

**Standard "Development and approval of the educational program"**

*For SP 6B05112 - General Biology, 7M05111 - General Biology, 6B11113-Restaurant Business, 7M05211- Geoecology and Environmental Management, 6B05314, 7M05311 Chemistry:*

- the qualifications obtained upon completion of the SP are clearly defined, explained and correspond to a certain level of the NSC.

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

Strengths: not revealed.

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

Strengths: not revealed.

**Standard "Learners"**

Strengths: not revealed.

**Standard "Faculty"**

Strengths: not revealed.

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

Strengths: not revealed.

**Standard Public Awareness**

Strengths: not revealed.

**Standards in the context of individual specialties**

Strengths: not revealed.

## **(VIII) REVIEW OF QUALITY IMPROVEMENT RECOMMENDATIONS FOR EACH STANDARD**

In order to improve the management processes of educational programs 6B05112 - General Biology, 7M05111 - General Biology, 6B11113-Restaurant Business, 7M05211- Geocology and Environmental Management, 6B05314, 7M05311 Chemistry Commission recommends:

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

*For the SP 6B05314- "Chemistry", 7M05311-Chemistry, 6B05112- "General Biology", 7M05111- "General Biology", 7M05211- "Geocology and Environmental Management", 6B11113- "Restaurant Business":*

1. To provide indicators and criteria for evaluating effectiveness in the development plans of the SP, to specify the deadlines for the implementation stages of the plan;
2. To include representatives of employers, graduates and students in the collegial governing bodies of the SP, take measures to expand their spectrum and ensure representativeness in making decisions on SP.
3. To provide training for SP management on educational management issues on a regular basis.

*Additionally for SP 6B05112 - General Biology*

1. To bring into line the profile of the study program with the direction of training according to the Classifier of the directions of training with higher and postgraduate education "6B05 Natural Sciences ..."

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

*For the SP 6B05314- "Chemistry", 7M05311-Chemistry, 6B05112- "General Biology", 7M05111- "General Biology", 7M05211- "Geocology and Environmental Management", 6B11113- "Restaurant Business":*

1. To ensure the involvement of students and teaching staff in the processes of collecting and analyzing information using ICTs for the development and further management of the development of educational programs, decision-making based on them (for example, focus group work protocols, electronic questionnaires, etc.).

### **Standard "Development and approval of the educational program"**

*For the SP 6B05314- "Chemistry", 7M05311-Chemistry, 6B05112- "General Biology", 7M05111- "General Biology", 7M05211- "Geocology and Environmental Management", 6B11113- "Restaurant Business":*

1. Continue work to expand multilingual groups in accredited SPs, apply new teaching methods and technologies in order to improve the quality of students' language competencies.
2. Create conditions for preparing students for professional certification.
3. To consider the issue of harmonization of educational programs with leading universities of the Republic of Kazakhstan implementing such SPs and to continue work on the development of joint SPs with universities in the near and far abroad
4. Align the content of the MPE and the "Graduate Model ..." in terms of describing areas and types of professional activity, the competencies of the graduate, show the impact of disciplines and professional practices on the formation and their relevance to goals.

*Additionally for SP 6B11113-Restaurant business:*

5. Consider the possibilities of preparing students for the Restaurant Business business training program for professional certification, for example, use the capabilities of the Professional Certification Center under the Kazakhstan Association of Hotels and Restaurants (KAGIR, Almaty), which have a state license for this type of activity.

*Additionally, for SP 7M05211- Geoecology and environmental management:*

6. Specify the procedure and frequency of meetings and work with stakeholders (for example, work shops, focus groups, round tables, etc.).

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

*For the SP 6B05314- "Chemistry", 7M05311-Chemistry, 6B05112- "General Biology", 7M05111- "General Biology", 7M05211- "Geoecology and Environmental Management", 6B11113- "Restaurant Business":*

8. Systematically carry out work on timely informing all stakeholders on the issues of changing the relevant SP in the public sections of the university's website.

*Additionally, for SP 6B05112 - General Biology, 7M05111 - General Biology:*

9. To envisage measures for regular discussion and introduction of changes in the study program of the latest achievements of science and industry (for example, once a year at the scientific-methodical council or scientific seminar of the department).

### **Standard "Student-centered learning, teaching and performance assessment"**

*For SP 6B05112 - General Biology, 7M05111 - General Biology, SP 6B11113- Restaurant Business, SP 7M05211- Geoecology and Environmental Management, 6B05314, 7M05311 Chemistry:*

1. To provide an assessment of the effectiveness of the implementation of innovations according to the criteria for improving the quality of training / achievement of learning outcomes;

2. Introduce new technologies and assessment methods in accordance with the learning outcomes and objectives of the program. To provide, in terms of the development of educational programs, teaching staff training on modern methods for assessing RO - practical skills and competencies of graduates;

3. To provide for systematic explanatory work among students on the principles of credit technology of education and the role of self-education.

### **Standard "Learners"**

*For SP 6B05112 - General Biology, 7M05111 - General Biology, SP 6B11113- Restaurant Business, SP 7M05211- Geoecology and Environmental Management, 6B05314, 7M05311 Chemistry:*

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

2. To activate the work of the University Alumni Association, to ensure the coordination of its activities for a more active participation in the development and management of EP, assistance in the employment of graduates, etc. Update the relevant section on the website.

*Additionally for EP 6B05112 - General Biology, 7M05111 - General Biology:*

3. To provide for measures to ensure compulsory passing of scientific internships for students EP M05111 – General Biology in leading research and production centers,

including in other regions of the Republic of Kazakhstan, as well as far and near abroad, including increasing the language competence of students;

### **Standard "Teaching staff"**

*For EP 6B05112 - General Biology, 7M05111 - General Biology, EP 6B11113-Restaurant Business, EP 7M05211- Geoecology and Environmental Management, 6B05314, 7M05311 Chemistry:*

1. Ensure the active use of the teaching staff of ICT in the educational process (e-portfolio, on-line-training, on-line courses of domestic and foreign information sources).
2. Consider the possibility of internships for teaching staff and program managers in other educational organizations that implement similar EP.
3. Provide systematic professional development of teaching staff
4. Conduct an analysis of the publication activity of all teaching staff and develop measures to improve the qualitative and quantitative indicators
5. Intensify efforts to improve English proficiency.
6. Reduce bureaucratic formalities and procedures for coordination with the university management to attract practitioners to teaching

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

7. Develop a program for the development of economic contractual projects with enterprises and specialized organizations to stimulate scientific research.
8. To include in the staff of the department teachers who have long-term experience of work at enterprises in the field of specializations of EP.

*Additionally for EP 6B05112 - General Biology, 7M05111 - General Biology:*

9. To envisage measures to expand the profile of specialization of teachers of the Department of Biology in modern areas of biological science - molecular and cellular biology, bioinformatics, etc.

### **Standard "Educational resources and student support systems"**

*For EP 6B05112 - General Biology, 7M05111 - General Biology, 6B11113-Restaurant Business, 7M05211- Geoecology and Environmental Management, 6B05314, 7M05311 Chemistry:*

1. Continue work on the installation of ramps for people with disabilities, guide markings and color signs and signs for visually impaired students and staff in the university buildings.
2. Continue work on the coverage of individual educational buildings with Wi-Fi, signal amplification and increase in bandwidth in the existing coverage area.

*Additionally for EP 6B05112 - General Biology, 7M05111 - General Biology, 6B05314, 7M05311 Chemistry:*

3. Establish safety requirements for the operation of equipment in accordance with the provisions, norms and requirements of TR CU 010/2011.

*Additionally for EP 6B05112 - General Biology, 7M05111 - General Biology:*

4. Provide for the planned equipping with educational laboratory equipment for EP 6B05112 – General biology in accordance with the profile of the studied disciplines.

*Additionally for EP 7M05311 Chemistry:*

5. Strengthen the material and technical base with scientific instruments for conducting actual physical and chemical research, and equipment similar in the relevant fields of activity of graduates, for example:

- a. NMR relaxometer minispec mq-one series
- b. Analytical balance, with an accuracy of at least 4 digits

#### **Standard Public Information**

*For EP 6B05112 - General Biology, 7M05111 - General Biology, EP 6B11113-Restaurant Business, EP 7M05211- Geoecology and Environmental Management, 6B05314, 7M05311 Chemistry:*

1. Provide publication in the relevant sections of the university website up-to-date information on EP, including: learning outcomes, personalities of teachers; updating information on educational programs and graduate models in the "Applicant" section, informing the public about the progress of EP implementation in three languages, EP development plans, teaching staff electronic portfolio, results of external evaluation and ratings procedures.

2. Provide information to the public about the implementation of the EP on the university website in the state, Russian and English languages.

#### **Standards by Specialty - Natural Sciences**

*For EP 6B05112 - General Biology, 7M05111 - General Biology, EP 7M05211-Geoecology and Environmental Management, 6B05314, 7M05311 Chemistry:*

1. Expand the base of practices and branches of departments in terms of the profile of training in accordance with the specified criteria.

*Additionally for EP 6B05112 - General Biology, 7M05111 - General Biology:*

2. Bring the content of academic disciplines, competencies and learning outcomes in line with the level of undergraduate and graduate studies, pay attention to the sequence of passing disciplines within the EP in accordance with the logic of complication / deepening, the procedure for establishing pre-post-requisites, revise disciplines duplicated at the level bachelor's and master's degrees.

#### **Standards in the context of individual specialties - Social Sciences, Humanities, Economics, Business and Law, Services.**

*For EP 6B11113-Restaurant business:*

3. To expand the opportunities for gaining experience and the formation of practical skills for students of the EP Restaurant Business in the process of summer internships and practices at hospitality enterprises abroad, using the Cooperation Agreement with Antalya (Turkey), as well as the opportunities offered by the tourism market for students of this specialization

**Appendix 1. Parameters of a specialized profile for SP 6B11113 Restaurant business, 6B05314 Chemistry, 7M05311 Chemistry, 7M05211 Geoecology and environmental management**

№	№	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 SP.		+		
4	4.	A commitment to quality assurance should apply to any activity carried out by contractors and partners (outsourcing), including in the implementation of joint / double degree education and academic mobility.		+		
5	5.	The SP management ensures transparency in the development of the SP development plan based on an analysis of its functioning, the real positioning of the university and its focus on meeting the needs of the state, employers, stakeholders and students.		+		
6	6.	SP management demonstrates the functioning of the mechanisms for forming and regularly reviewing the SP development plan and monitoring its implementation, assessing the achievement of learning objectives, meeting the needs of students, employers and society, making decisions aimed at continual improvement of SP.		+		
7	7.	SP management should involve representatives of stakeholder groups, including employers, students and faculty members, in the formation of the SP development plan.		+		
8	8.	SP management must demonstrate the individuality and uniqueness of the SP 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 SP, an unambiguous distribution of the duties of the staff, and delimitation of the functions of		+		



		collegial bodies.				
10	10.	SP management must provide evidence of the transparency of the educational program management system.		+		
11	11.	SP management must demonstrate the successful functioning of the internal quality assurance system of the SP, including its design, management and monitoring, their improvement, decision-making based on facts.		+		
12	12.	SP management must manage risk.		+		
13	13.	SP 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 SP, including the analysis and implementation of innovative proposals.		+		
15	15.	SP management should demonstrate evidence of openness and accessibility for students, faculty, employers and other interested parties.		+		
16	16.	SP management must be trained in education management programs.		+		
17	17.	SP management should strive to ensure that the progress made since the last external quality assurance procedure was taken into account in preparation for the next procedure.		+		
<b>Total standard</b>				<b>16</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.	SP management must demonstrate the systematic use of processed, adequate information to improve the internal quality assurance system.		+		
20	3.	Within the framework of the SP, there should be a system of regular reporting, reflecting all levels of the structure, including an assessment of the effectiveness and efficiency of the departments and departments, scientific research.		+		
21	4.	The university should establish the frequency, forms and methods of evaluating the management of SP, the activities of collegial bodies and structural units, 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.	SP 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 SP 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 SP.		+		
		<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;		+		
29	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.	SP management should facilitate the provision of all necessary information in relevant fields of science.		+		
<b>Total standard</b>				<b>17</b>		
<b>Standard "Development and approval of educational programs"</b>						
35	1.	The university should determine and document the procedures for the development of SP and their approval at the institutional level.		+		
36	2.	SP management should ensure that developed SPs are consistent with established goals, including intended learning outcomes.		+		
37	3.	SP management should ensure that there are developed models of the graduate of the SP that describe the learning outcomes and personal qualities.		+		
38	4.	SP management must demonstrate the conduct of external expert reviews.		+		
39	5.	The qualification obtained upon completion of the SP must be clearly defined, clarified and consistent with a certain level of NSC.	+			

40	6.	SP 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.	SP management must provide evidence of the participation of students, faculty and other stakeholders in the development of SP, ensuring their quality.		+		
43	9.	The complexity of the SP should be clearly defined in Kazakhstan loans and ECTS..		+		
44	10.	SP 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 SP 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>			<b>1</b>	<b>10</b>		<b>1</b>
<b>Standard "Continuous monitoring and periodic evaluation of educational programs"</b>						
47	1.	The university should conduct monitoring and periodic assessment of the SP 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 SP.		+		
		Monitoring and periodic assessment of SP should consider:				
48	2.	the content of the programs in the light of the latest achievements of science in a particular discipline to ensure the relevance of the taught discipline;		+		
49	3.	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 SP;		+		
53	7.	educational environment and support services and their compliance with the goals of the SP.		+		
54	8.	The university and the SP management must provide evidence of the participation of students, employers and other stakeholders in the revision of the SP.		+		
55	9.	All interested parties should be informed of any planned or taken actions regarding the SP. All changes made to the SP should be published.				+
56	10.	SP management should ensure that the content and structure of the SP are reviewed taking into account changes in the labor market, requirements of employers		+		

		and the social demand of the company.				
<b>Total standard</b>			<b>9</b>	<b>1</b>		
<b>Standard "Student-centered Learning, Teaching and Assessment"</b>						
57	1.	SP management should ensure respect and attention to various groups of students and their needs, providing them with flexible learning paths.		+		
58	2.	SP 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 SP.			+	
60	4.	SP management should demonstrate the existence of a feedback system for the use of various teaching methods and assessment of learning outcomes.		+		
61	5.	SP management should demonstrate support for students' autonomy while guiding and assisting the teacher.		+		
62	6.	SP 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 SP, including the appeal.		+		
64	8.	The university should ensure that the procedures for evaluating the learning outcomes of students of SP study are in line with the planned learning outcomes and program objectives. Evaluation criteria and methods within the framework of the SP should be published in advance		+		
65	9.	The university should determine the mechanisms for ensuring the development of learning outcomes by each graduate of the educational 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>			<b>9</b>	<b>1</b>		
<b>Standard "Students"</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.	SP 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.	SP 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 SP, as well as assist them in obtaining external grants for training.		+		
73	7.	SP 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 SP.		+		
76	10.	SP 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>				<b>11</b>	<b>1</b>	
<b>Standard "Academic staff"</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.	SP management should demonstrate awareness of responsibility for its employees and ensure favorable working conditions for them.		+		
82	4.	SP management should demonstrate awareness of responsibility for its employees and ensure favorable working conditions for them.		+		

83	5.	SP management should demonstrate a change in the role of the teacher in connection with the transition to student-centered learning.		+		
84	6.	The university should provide opportunities for career growth and professional development of academic staff.		+		
85	7.	SP management should involve practitioners in relevant industries in teaching.		+		
86	8.	SP 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 SP, including the promotion of 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 SP, 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>				<b>11</b>	<b>1</b>	
<b>Standard "Educational Resources and Student Support Systems"</b>						
91	1.	SP management must demonstrate the adequacy of material and technical resources and infrastructure.		+		
92	2.	SP management should demonstrate the existence of support procedures for various groups of students, including information and counseling.		+		
		<i>SP management must demonstrate compliance of information resources with SP 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.	technological support for students and faculty in accordance with educational programs (for example, online training, modeling, databases, data analysis programs);		+		
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 SP (adults, workers, foreign students, as well as students with disabilities).		+		
<b>Total standard</b>				<b>10</b>		
<b>Standard «Public Awareness»</b>						
		<i>Information published by the university within the framework of the SP 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 SP;		+		
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.	SP 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.	Public awareness should include support and clarification of national development programs of the country and the system of higher and postgraduate education.		+		
109	9.	The university should publish audited financial statements on its own web resource.		+		
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 SP, 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 SPs in various external assessment procedures..		+		
<b>Total standard</b>				<b>12</b>	<b>1</b>	
<b>Standards in the context of individual specialties</b>						
<b>NATURAL SCIENCES</b>						
		<i>Educational programs in the field of "Natural Sciences", such as "Chemistry", "Geoecology and Environmental Management", 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 as a whole and majors in particular, in t.h. : - excursions to enterprises in the field of specialization (factories, workshops, research institutes, laboratories, educational 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 with long experience as full-time employees in enterprises in the field of specialization of the education program.		+		
116	3.	The content of all disciplines of the SP should be based to one degree or another and include a clear relationship with the content of the fundamental natural sciences, such as mathematics, chemistry, physics.		+		
117	4.	SP management should provide measures to strengthen practical training in the field of specialization.		+		
118	5.	SP management should provide training for students in the application of modern information technologies.		+		
<b>Total standard</b>				<b>5</b>		
<b>SERVICES</b>						
		<i>Educational programs in the direction of "Services", for example, such as "Restaurant business", etc., must meet the following requirements:</i>				
119	1.	SP management should demonstrate that teaching within the program is based on modern achievements of world science and practice in the field of specialization, as well as using modern and advanced teaching methods;		+		
120	2.	SP management should guarantee students access to the most up-to-date and relevant data (statistics, news, scientific results) in the field of specialization in paper		+		



		(newspapers, statistical data collections, textbooks) and electronic media;				
121	3.	Objectives, respectively, and learning outcomes should be aimed at students obtaining specific skills in demand on the labor market;		+		
122	4.	SP management must demonstrate that program graduates possess these skills and that these skills are truly in demand in the market;		+		
123	5.	SP should include a significant number of disciplines and activities aimed at students gaining practical experience in applying theoretical knowledge, such as industrial practice, training at enterprises, participation in lectures and seminars of practicing specialists, etc .;		+		
124	6.	SP management should demonstrate analysis of the labor market and provide examples of successful employment of graduates.		+		
<b>Total standard</b>				<b>6</b>		
<b>TOTAL</b>			<b>1</b>	<b>116</b>	<b>7</b>	



**Appendix 2. Parameters of a specialized profile for SP 6B05112 - General Biology, 7M05111 - General Biology**

№	№	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 SP.		+		
4	4.	A commitment to quality assurance should apply to any activity carried out by contractors and partners (outsourcing), including in the implementation of joint / double degree education and academic mobility.		+		
5	5.	The SP management ensures transparency in the development of the SP development plan based on an analysis of its functioning, the real positioning of the university and its focus on meeting the needs of the state, employers, stakeholders and students.		+		
6	6.	SP management demonstrates the functioning of the mechanisms for forming and regularly reviewing the SP development plan and monitoring its implementation, assessing the achievement of learning objectives, meeting the needs of students, employers and society, making decisions aimed at continual improvement of SP.		+		
7	7.	SP management should involve representatives of stakeholder groups, including employers, students and faculty members, in the formation of the SP development plan.		+		
8	8.	SP management must demonstrate the individuality and uniqueness of the SP 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 SP, an unambiguous distribution of the duties of the staff, and delimitation of the functions of collegial bodies.		+		
10	10.	SP management must provide evidence of the		+		

		transparency of the educational program management system.				
11	11.	SP management must demonstrate the successful functioning of the internal quality assurance system of the SP, including its design, management and monitoring, their improvement, decision-making based on facts.		+		
12	12.	SP management must manage risk.		+		
13	13.	SP 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 SP, including the analysis and implementation of innovative proposals.		+		
15	15.	SP management should demonstrate evidence of openness and accessibility for students, faculty, employers and other interested parties.		+		
16	16.	SP management must be trained in education management programs.		+		
17	17.	SP management should strive to ensure that the progress made since the last external quality assurance procedure was taken into account in preparation for the next procedure.		+		
<b>Total standard</b>			<b>0</b>	<b>15</b>	<b>2</b>	<b>0</b>
<b>Standard "Information Management and Reporting"</b>						
18	1.	The university should ensure the functioning of a system for collecting, analyzing and managing information based on the use of modern information and communication technologies and software.		+		
19	2.	SP management must demonstrate the systematic use of processed, adequate information to improve the internal quality assurance system.		+		
20	3.	Within the framework of the SP, there should be a system of regular reporting, reflecting all levels of the structure, including an assessment of the effectiveness and efficiency of the departments and departments, scientific research.		+		
21	4.	The university should establish the frequency, forms and methods of evaluating the management of SP, the activities of collegial bodies and structural units, 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.	SP 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 SP 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 SP.		+		
		<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;		+		
29	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.	SP management should facilitate the provision of all necessary information in relevant fields of science.		+		
<b>Total standard</b>			<b>0</b>	<b>17</b>	<b>0</b>	<b>0</b>
<b>Standard "Development and approval of educational programs"</b>						
35	1.	The university should determine and document the procedures for the development of SP and their approval at the institutional level.		+		
36	2.	SP management should ensure that developed SPs are consistent with established goals, including intended learning outcomes.		+		
37	3.	SP management should ensure that there are developed models of the graduate of the SP that describe the learning outcomes and personal qualities.		+		
38	4.	SP management must demonstrate the conduct of external expert reviews.		+		
39	5.	The qualification obtained upon completion of the SP must be clearly defined, clarified and consistent with a certain level of NSC.	+			
40	6.	SP 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.	SP management must provide evidence of the participation of students, faculty and other stakeholders in the development of SP, ensuring their quality.		+		
43	9.	The complexity of the SP should be clearly defined in Kazakhstan loans and ECTS..		+		
44	10.	SP 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 SP 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>			<b>1</b>	<b>8</b>	<b>3</b>	
<b>Standard "Continuous monitoring and periodic evaluation of educational programs"</b>						
47	1.	The university should conduct monitoring and periodic assessment of the SP 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 SP.		+		
		Monitoring and periodic assessment of SP should consider:				
48	2.	the content of the programs in the light of the latest achievements of science in a particular discipline to ensure the relevance of the taught discipline;		+		
49	3.	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 SP;		+		
53	7.	educational environment and support services and their compliance with the goals of the SP.		+		
54	8.	The university and the SP management must provide evidence of the participation of students, employers and other stakeholders in the revision of the SP.		+		
55	9.	All interested parties should be informed of any planned or taken actions regarding the SP. All changes made to the SP should be published.			+	
56	10.	SP management should ensure that the content and structure of the SP are reviewed taking into account changes in the labor market, requirements of employers and the social demand of the company.		+		
<b>Total standard</b>			<b>0</b>	<b>9</b>	<b>1</b>	<b>0</b>

<b>Standard "Student-centered Learning, Teaching and Assessment"</b>						
57	1.	SP management should ensure respect and attention to various groups of students and their needs, providing them with flexible learning paths.		+		
58	2.	SP 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 SP.			+	
60	4.	SP management should demonstrate the existence of a feedback system for the use of various teaching methods and assessment of learning outcomes.		+		
61	5.	SP management should demonstrate support for students' autonomy while guiding and assisting the teacher.		+		
62	6.	SP 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 SP, including the appeal.		+		
64	8.	The university should ensure that the procedures for evaluating the learning outcomes of students of SP study are in line with the planned learning outcomes and program objectives. Evaluation criteria and methods within the framework of the SP should be published in advance		+		
65	9.	The university should determine the mechanisms for ensuring the development of learning outcomes by each graduate of the educational 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>			<b>0</b>	<b>9</b>	<b>1</b>	<b>0</b>
<b>Standard "Students"</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.	SP 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.	SP 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 SP, as well as assist them in obtaining external grants for training.			+	
73	7.	SP 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 SP.		+		
76	10.	SP 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>			<b>0</b>	<b>10</b>	<b>2</b>	<b>0</b>
<b>Standard "Academic staff"</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.	SP management should demonstrate awareness of responsibility for its employees and ensure favorable working conditions for them.		+		
82	16.	SP management should demonstrate awareness of responsibility for its employees and ensure favorable working conditions for them.		+		
83	17.	SP management should demonstrate a change in the role of the teacher in connection with the transition to student-centered learning.		+		
84	18.	The university should provide opportunities for career growth and professional development of academic staff.		+		



85	19.	SP management should involve practitioners in relevant industries in teaching.		+		
86	20.	SP 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 SP, including the promotion of 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 SP, 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>			<b>0</b>	<b>11</b>	<b>1</b>	<b>0</b>
<b>Standard "Educational Resources and Student Support Systems"</b>						
91	1.	SP management must demonstrate the adequacy of material and technical resources and infrastructure.			+	
92	2.	SP management should demonstrate the existence of support procedures for various groups of students, including information and counseling.		+		
		<i>SP management must demonstrate compliance of information resources with SP 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.	technological support for students and faculty in accordance with educational programs (for example, online training, modeling, databases, data analysis programs);		+		
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 SP (adults, workers, foreign students, as well as students with disabilities).		+		
<b>Total standard</b>			<b>0</b>	<b>8</b>	<b>2</b>	<b>0</b>
<b>Standard «Public Awareness»</b>						
		<i>Information published by the university within the framework of the SP 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 SP;		+		
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.	SP 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.	Public awareness should include support and clarification of national development programs of the country and the system of higher and postgraduate education.		+		
109	9.	The university should publish audited financial statements on its own web resource.		+		
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 SP, 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 SPs in various external assessment procedures..		+		
<b>Total standard</b>			<b>0</b>	<b>12</b>	<b>1</b>	<b>0</b>

Standards in the context of individual specialties						
<b>NATURAL SCIENCES</b>						
		<i>Educational programs in the field of "Natural Sciences", such as "General Biology", 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 as a whole and majors in particular, in t.h.: - excursions to enterprises in the field of specialization (factories, workshops, research institutes, laboratories, educational 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 with long experience as full-time employees in enterprises in the field of specialization of the education program.			+	
116	3.	The content of all disciplines of the SP should be based to one degree or another and include a clear relationship with the content of the fundamental natural sciences, such as mathematics, chemistry, physics.			+	
117	4.	SP management should provide measures to strengthen practical training in the field of specialization.			+	
118	5.	SP management should provide training for students in the application of modern information technologies.			+	
<b>Total standard</b>			0	3	2	0
<b>TOTAL</b>			<b>1</b>	<b>102</b>	<b>15</b>	<b>0</b>