



«АККРЕДИТТЕУ ЖӘНЕ РЕЙТИНГТІҢ  
ТӘУЕЛСІЗ АГЕНТТІГІ» КЕМ

НУ «НЕЗАВИСИМОЕ АГЕНТСТВО  
АККРЕДИТАЦИИ И РЕЙТИНГА»

INDEPENDENT AGENCY FOR  
ACCREDITATION AND RATING

# Report

On the results of the work of the external expert commission on the assessment of compliance with the requirements of the standards of specialized accreditation of educational programs  
6B01509 - "Chemistry-Biology", 6B01512 - "Geography-History"  
Non-profit Joint Stock Company "Shakarim University of Semey" for compliance with the standards of specialized accreditation  
from "19" to "21" April 2023

**INDEPENDENT ACCREDITATION AND RATING AGENCY**  
**External Expert Commission**

**Addressed to**  
**To the Accreditation**  
**Council of People 's**



**Report**

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of compliance with the requirements of the standards of specialized accreditation of  
educational programs  
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**(I) LIST OF DESIGNATIONS AND ABBREVIATIONS**

HAAP/IAAR	Non-profit institution of the Independent Agency for Accreditation and Rating
HAO	Non-profit Joint Stock Company
AYII	Administrative and management personnel
AC	Accreditation Council HAAP/IAAR
EXC	External expert commission HAAP/IAAR
SAC	State Attestation Commission
SOSE RK	State obligatory standard of education of the Republic of Kazakhstan
SLG	State and local government
DET	Distance educational technologies
UNT	unified national testing
IS	Information Systems
ICT	Information and Communication Technologies
ISP	individual study plan
YC	Youth Committee
CE	Computer engineering
CED	Catalog of elective disciplines
CT	Comprehensive testing
CTT	Credit training technology
MEP	Modular educational programs
MES RK	Ministry of Education and Science of the Republic of Kazakhstan
NQF	National qualifications frameworks
RW	Research work
RWMS	Research work of a master student
SRW	Student research work
GED	General education disciplines
EP	Educational program
RO	Registrar's office
MD	Major disciplines
TS	Teaching staff
FC	Frontier control
WC	Working Curriculum
SHD	Social and humanitarian disciplines
DLS	distance learning system
MM	Mass media
QMS	Quality Management System
IWSWT	Independent work of a student with a teacher
CC	current control
MC	Model Curriculum
EMCD	Educational-methodical complex of the discipline
EEMCD	Electronic educational and methodical complex of the discipline

## (II) INTRODUCTION

In accordance with the order of the Independent Agency of Accreditation and Rating from 19 to 21 April 2023 An external expert commission assessed the compliance of educational programs 6B01509 - "Chemistry-Biology", 6B01512 - "Geography-History" of the NAO "Shakarim University of Semey" with the standards of specialized accreditation of the NAAR (No. 65-20-OD dated 03.09.2020).

The report of the external expert commission (VEC) contains an assessment of the compliance of the activities of the NAO "Shakarim University of Semey" within the framework of specialized accreditation with the criteria of the NAAR, recommendations of the VEC on further improvement of the parameters of the specialized profile.

### **The composition of the VEC:**

Chairman of the IAAR – **Tamyarov Andrey Valerievich** Candidate of Technical Sciences, Associate Professor of the Ulyanovsk State Technical University (Ulyanovsk, RFOff-line participation

IAAR Coordinator – **Gulfiya Rivkatovna Nazyrova**, Candidate of Economic Sciences, Project Manager for the formation of external expert commissions IAAR.Off-line participation Национальный

IAAR expert – **Gulmira Akhmetovna Rakhimova**, Candidate of Economic Sciences, Associate Professor of KATU. Seifullina (Astana) On-line participation

National expert of IAAR – **Sisenova Asel Tursyngaliyevna** Candidate of Economic Sciences, Professor Turan University (Almaty) off-line participation

IAAR expert, Oserbatov student **Raul Batbairuly**, 3rd year student of East Kazakhstan Technical University named after Serikbayeva (Ust-Kamenogorsk). On-line participation

Foreign expert – **Natalie Aleksandra Gurvitš-Suits** PhD, Tallinn University of Technology (Tallinn University of Technology) (Tallinn, Estonia) On-line participation

National expert of IAAR – Dzhholdasbayeva **Gulnar Karimovna** Doctor of Economics, Professor Almaty Technological University (Almaty) On-line participation

IAAR expert, Employer – **Adylkhan Asset Berdygaliuly** NPP "Atameken" of East Kazakhstan region (Ust-Kamenogorsk); On-line participation

IAAR Expert, Student – **Alibekova Kamilla** 3rd year doctoral student, Palacki University (Olomouc, Czech Republic) On-line participation

National expert of IAAR – **Kopishev Eldar Yertayevich** Candidate of Chemical Sciences, Associate Professor Eurasian National University named after Gumilyova (Astana) off-line participation

IAAR National Expert – **Gabdullina Ainur Zhumagazievna** Candidate of Historical Sciences, Associate Professor S.Seifullin Kazakh Agrotechnical University; (Astana, Republic of Kazakhstan) On-line participation

IAAR expert, Student – **Umbet Zhanbota Kalkamankyzy** 2nd year Master's student Al-Farabi Kazakh National University (Almaty); On-line participation

National expert of IAAR – **Gabdulov Madi Asetovich** Candidate of Agricultural Sciences, Associate Professor West Kazakhstan Agrarian and Technical University named after Zhangir Khan (Uralsk, Republic of Kazakhstan); On-line participation

Foreign Expert IAAR - Starciuc Nicolae dr. habilitatus in veterinary medicine, professor State Agrarian University of Moldova (SAUM) On-line participation

IAAR expert, **Zhabykbai student Dana Berikkyzy**, 3rd year student of the Kazakh National Agrarian Research University (Almaty); On-line participation

National expert of IAAR – **Kartbayev Timur Saatdinovich** PhD, academician of the MAIN Kazakh National Women's Pedagogical University (Almaty) On-line participation

IAAR expert, Employer – **Dzhagiparova Gulmira Zeynulovna** Head of the commercial unit, KT Cloud lab (Almaty) On-line participation

IAAR Expert, Student – **Adel Omarova**, member of the Alliance of Students of

Kazakhstan, S.Seifullin Kaazakh Agrotechnical University On-line participation

National expert of IAAR – **Rakhmetulayeva Sabina Batyrkhanovna** PhD Associate Professor, PhD of the Department "Information Systems" International University of Information Technologies (IIT); On-line participation

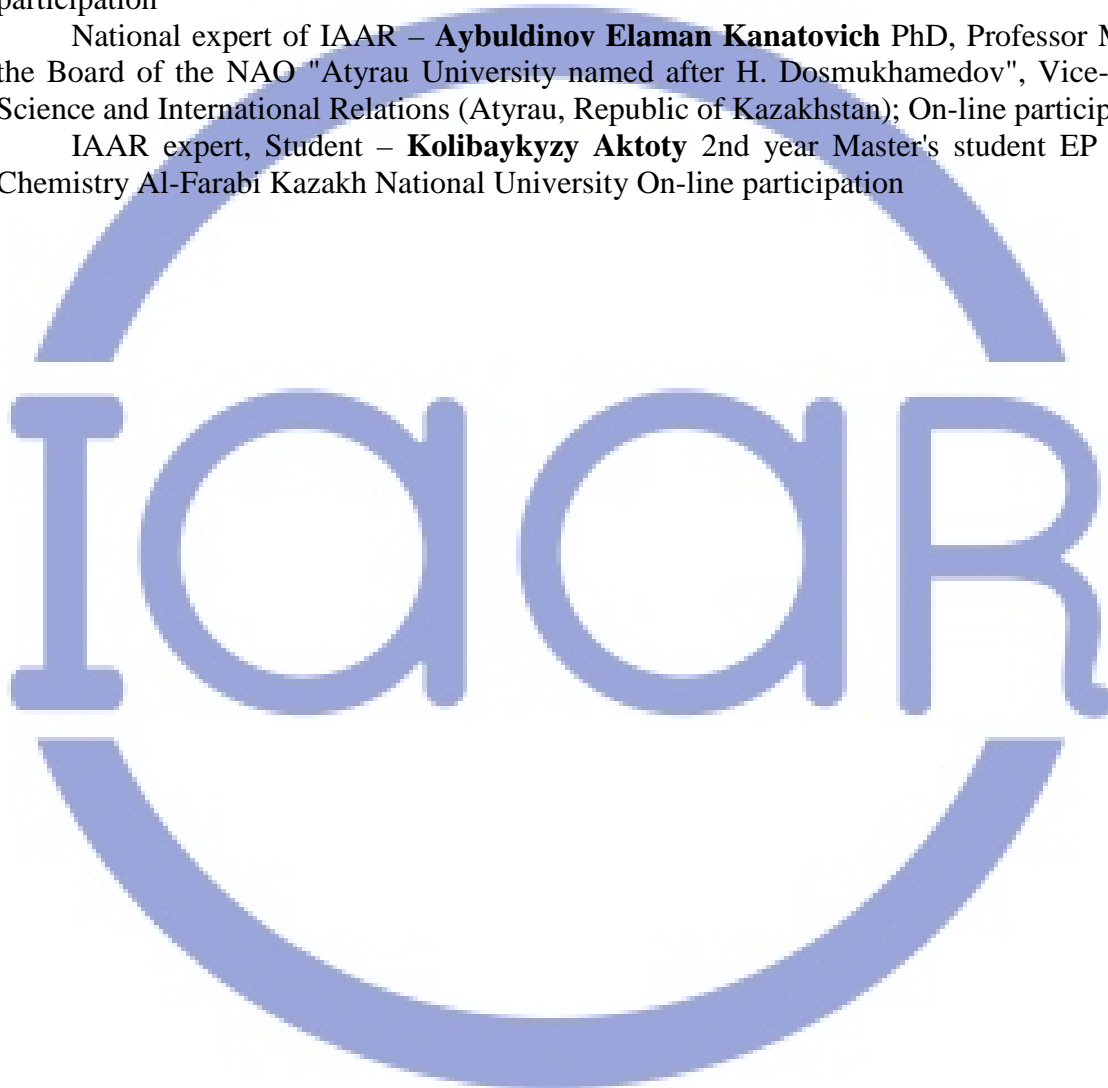
IAAR Expert, Student – **Nurgeldieva Aruzhan** 2nd year Master's student Kazakh National Agrarian Research University On-line participation

National expert of IAAR – **Burbekova Saule Zhorabekovna** Candidate of Philological Sciences, Associate Professor, Astana IT University (Astana, Republic of Kazakhstan) On-line participation

IAAR expert, Student – **Tynymbaeva Aruzhan Muratkyzy** 2nd-year master's student of the Eurasian National University.Gumilyova; (Astana, Republic of Kazakhstan); On-line participation

National expert of IAAR – **Aybuldinov Elaman Kanatovich** PhD, Professor Member of the Board of the NAO "Atyrau University named after H. Dosmukhamedov", Vice-Rector for Science and International Relations (Atyrau, Republic of Kazakhstan); On-line participation

IAAR expert, Student – **Kolibaykyzy Aktoty** 2nd year Master's student EP 7M01503, Chemistry Al-Farabi Kazakh National University On-line participation



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

Non-profit Joint Stock Company "Shakarim University of Semey" - (License no. KZ38LAA00018432 dated 25.06.2020), one of the multidisciplinary higher educational institutions of the north-eastern region of Kazakhstan, which trains bachelors, masters and doctors of philosophy in educational programs in the field of technical, natural, socio-humanitarian, pedagogical, agricultural sciences, veterinary medicine, business.

The history of the NAO "Shakarim Semey University" begins in 1934, the beginning of which was the foundation of the Semipalatinsk Pedagogical Institute. In 1995, on the basis of the Semipalatinsk Pedagogical Institute named after Shakarim, the Semipalatinsk Veterinary Institute, the Semipalatinsk Technological Institute of Meat and Dairy Industry were merged and the Semey State University was established, with the inclusion of the Semipalatinsk Polytechnic College, Semipalatinsk Pedagogical College, Semipalatinsk College of Music and Semipalatinsk College of Agribusiness with the preservation of their legal and financial independence. (Resolution of the Government of the Republic of Kazakhstan dated November 13, 1995 N 1518).

By the Decree of the Government of the Republic of Kazakhstan No. 529 dated May 29, 2013, the university was transformed into the "Shakarim State University".

By Order of the Ministry of Finance of the Republic of Kazakhstan No. 249 dated 04/29/2020, the republican state enterprise on the right of economic management "Shakarim State University" the university was transformed into the NAO "Shakarim University of Semey".

At the university, the training of personnel with higher and postgraduate education is carried out at 5 faculties, where 7,258 students, undergraduates and doctoral students study in 45 bachelor's degree programs, 37 master's degree programs of scientific and pedagogical direction and profile direction, as well as 10 PhD-doctoral educational programs. To develop additional competencies for students, 13 additional educational programs (Minor) have been launched since 2021 and 25 Minor programs have been presented to choose from today. About 10 massive open online courses (MOOCs) and more than 150 video lectures have been recorded.

Shakarim University has a faculty of 971 teachers and staff, including 28 doctors of sciences and professors, 155 candidates of sciences and associate professors, 181 masters.

The university entered the program of 15 centers of academic excellence in the regions launched by the Ministry of Education and Science of the Republic of Kazakhstan. A multifunctional website dedicated to the work of Shakarim Kudaiberdiyev has been created, a SmartShakarim mobile application has been launched in order to digitalize the educational process, and the Shakarim Shapagaty Foundation has been created.

A START-UP project competition is held at the university for the development of scientific and entrepreneurial activities of students, with the allocation of financial resources to the winners for the implementation of the project.

Within the framework of research activities, the university cooperates with neighboring countries - Kyrgyzstan (Kyrgyz State Academy of Physical Culture and Sports), Uzbekistan (Tashkent State University of Uzbek Language and Literature named after A. Navoi), Ukraine (V.N. Karazin Kharkiv National University), Russia (Novosibirsk State Agrarian University, Omsk State Pedagogical University, Krasnodar Branch of Plekhanov Russian University of Economics, S.N. Institute of Experimental Veterinary Medicine Vysheslesky), Belarus (Baranovichi State University), Azerbaijan (Veterinary Research Institute), as well as with non-CIS countries - Poland (University of Economics, Bydgoszcz), Italy (MOU University of Cassino and Southern Lazio), Romania (Brasov Transylvanian University), South Korea (Kyungdon University).

The University participates in the international ERASMUS+ project "KazDual – implementation of the dual system in Kazakhstan, funded by the European Union", 2021-2024. The university participates in the "Traveling student" project, with the aim of comprehensive

student development, adaptation to the peculiarities of the regions of the Republic of Kazakhstan, increasing academic knowledge and employment opportunities. The university has launched the project "TOP 100 best students".

According to the Independent Agency for Quality Assurance in Education – Rating (IQAA-Ranking), the National ranking of the best universities in Kazakhstan – 2022 was compiled: in the ranking of multidisciplinary universities by scientific publications - Shakarim University entered the TOP 10 and took 8th place, in the ranking of websites of multidisciplinary universities - the university takes 26th place.

In the international ranking of Rankingwebofuniversities websites among universities in Kazakhstan, Shakarim University ranks 23rd.

According to the national rating of the best multidisciplinary universities in Kazakhstan, within the framework of the National Rating of the best universities in Kazakhstan – 2020, conducted by the Independent Agency for Quality Assurance in Education – Rating (IQAA-Ranking), the university ranks 10th.

Shakarim University annually participates in the international QS ranking. The University occupies 301-350 places in the QS Emerging Europe and Central Asia University Rankings 2022.

To calculate the ranking of universities for 2023, the British agency QS makes changes to the distribution of countries by region, which affected the ranking of universities and in the QS AsiaUniversityRankings 2023 Shakarim University ranks 501-550, among universities in Central Asia - 25th place.

In the National Ranking for 2022, conducted by NCE "Atameken", 35 bachelor's degree programs of Shakarim University took part: 14 educational programs took 1-10 places; 12 educational programs took 11-20 places; 9 educational programs took 21-46 places.

The University's quality policy is determined by the Chairman of the Management Board - the Rector of the University and the Member of the Management Board - the Vice-Rector for Academic Affairs. The policy and standards of the internal quality assurance system of education are defined in accordance with the Mission and Strategy of Shakarim University.

The internal quality assurance policy has goals:

- defines the overall structure of the internal education quality assurance system;
- contributes to ensuring and improving the quality of education;
- supports mutual trust and promotes recognition of learning outcomes and mobility of students outside the national education system;
- provides information on quality assurance to the educational space of Kazakhstan and the European Higher Education Space.

04/29/2020 The university has developed (Order No. 249) the Charter of the Non-profit Joint-Stock Company "Shakarim University of Semey". The charter of an educational institution is a constituent document that defines its name, location, legal basis for the organization and functioning of the Company, the procedure for the formation and competence of its bodies, the conditions for reorganization and termination of its activities.

The strategic plan of the University was reviewed and approved by the decision of the Board of Directors of the NAO "Shakarim Semey University" (Protocol No. 5 of May 11, 2021). The Board of Directors reviewed and approved adjustments to the planned indicators of the Strategic Plan of the University (Protocol No. 1 of February 16, 2022).

The Strategic Plan of the University covers such sections as the mission and vision of the university, analysis of the current situation, priority strategic directions for the development of the university and indicators of the effectiveness of the implementation of the plan.

The quality assurance policy of EP 6B01509 Chemistry-Biology and 6B01512 "Geography-History" is determined by the documented quality objectives of the graduating Department of Natural Sciences, developed for each academic year. The quality assurance policy is available to all teaching staff, employees and students. This is ensured by holding meetings of

the department, introductory meetings and seminars through the university's website.

The University's activities are carried out on the basis of the strategic development plan of the NAO "Shakarim Semey University" for 2021-2025 in accordance with the stated mission, vision and strategic directions.

The internal quality assurance policy of Shakarim University reflects the relationship between scientific research, teaching, and learning and takes into account both the national and intra-university context.

The staff of the Department of Natural Sciences of EP 6B01509 – "Chemistry-Biology", 6B01512 "Geography-History" consists of 17 teaching staff, including: 7 PhD, 2 PhD, 9 masters, 1 specialist, which fully contributes to the functioning of educational programs in accordance with the priorities of development and strategy of the university.

Educational programs are developed by the University independently in accordance with the regulatory framework of the Ministry of Science and Higher Education of the Republic of Kazakhstan and the National Qualification Framework, industry Qualification Framework and professional standards based on the Dublin descriptors.

The list of EP is provided in the register of EP on the website of the Center for the Bologna Process and Academic Mobility of the Ministry of Internal Affairs of the Republic of Kazakhstan.

In accordance with the Rules of the organization of the educational process on distance learning technologies at the university, together with the full-time form, full-time training is carried out using DET. Coordination of full-time training using DET, organization of methodological and communication support of the educational process on DET is carried out by the Registrar's Office.



#### (IV) DESCRIPTION OF THE VEC VISIT

The visit of the external expert commission to the NAO "Shakarim University of Semey" was carried out on the basis of an approved and pre-agreed Program in a hybrid form in the form of on-line and off-line in the period from April 19 to April 21, 2023.

In order to coordinate the work of the EXC, a remote installation meeting was held on April 18, 2020, during which powers were distributed among the members of the commission, the schedule of on-line and off-line visits was clarified, agreement was reached on the choice of examination methods.

In order to obtain objective information on the evaluation of the university's activities, the members of the EXC used such methods as off-line and remote visual inspection, observation, interviewing employees of various structural divisions, teachers, students, graduates and employers, questioning the teaching staff, students.

In accordance with the requirements of the standards, the program of the visit included meetings with the rector, vice-rectors, heads of structural divisions, deans, heads of departments of the university, teachers, students, employers and employees from various departments, interviewing and questioning teachers and students.

Information about employees and students who took part in meetings with the EXC NAAR:

<b>Participant category</b>	<b>Quantity</b>
Rector	1
Vice-rector	3
Chief of Staff of the Board	1
Heads of structural divisions	18
Deans of faculties	5
Heads of departments	17
teachers	80
Students, undergraduates	477
Graduates	14
Employers	12
<b>Total</b>	<b>628</b>

During the visual inspection, the members of the EXC got acquainted with the state of the material and technical base of the faculties implementing accredited educational programs, departments, scientific laboratories, named classrooms, a library, computer classes, teaching rooms, a museum, etc.

Teachers and students take part in the actions "Academic honesty and a clean session", the Anti-Corruption Standard for ensuring openness and transparency in organizations of higher and (or) postgraduate education, approved by the Order of the Minister of Education and Science of the Republic of Kazakhstan dated 04.05.2020 No. 174, is valid on the university's website.

The events planned within the framework of the visit of the EXC IAAR contributed to the familiarization of experts with the databases of practices.

The working documentation of the university was requested and analyzed by external experts. Along with this, the experts studied the Internet positioning of the university through the official website of the university.

The events planned within the framework of the visit of the EXC IAAR contributed to the detailed familiarization of experts with the educational infrastructure of the university, material and technical resources, teaching staff, representatives of employers' organizations, students. This allowed the members of the EXC IAAR to conduct an independent assessment of the compliance of the data set out in the reports on the self-assessment of the university's educational programs with the criteria of the standards of specialized accreditation of the EXC IAAR.

Along with this, the experts studied the Internet positioning through the official website of the university <https://shakarim.edu.kz/>.

Members of the VEC accredited educational programs attended the following open class in off-line mode:

<b>№</b>	<b>Educational program</b>	<b>Well</b>	<b>Discipline</b>	<b>Subject</b>	<b>Teacher</b>	<b>Audience/ Time</b>
1	6B01509 - "Chemistry-Biology"	1	Plant anatomy and morphology	Plants depend on water and light environmental groups.	Zekenova L.Sh.	111 / 15.35 – 16.25
2	6B01512 - "Geography-History"	1	History of Kazakhstan	December	Isin A.I.	218/16.40-17.30

On April 20, 2023, the practice bases were set up: KSU Secondary School No. 31 Semey; KSU Secondary School No. 22 Semey; KSU Gymnasium No. 37 Semey; KSU Secondary School No. 39 Semey KSU; Secondary School No. 16 Semey.

During the visit to the practice bases, a conversation was held with the management to clarify the forms and directions of cooperation with the university. The members of the EXC got acquainted with the documents of the internship.

In general, the members of the expert commission positively assessed the university's cooperation with the practice bases. For example, the national expert E. Kopsishev recommended that the heads of the practice bases publicly express in the mass media the results of joint activities with Shakarim University.

The events planned within the framework of the visit of the EXC IAAR contributed to the detailed familiarization of experts with the educational infrastructure of the university, material and technical resources, teaching staff and staff, students, undergraduates, representatives of employers, graduates. This allowed the members of the EXC IAAR to conduct an independent assessment of the compliance of the data contained in the reports on the self-assessment of the university's educational programs with the criteria of specialized accreditation standards.

## (VI) DESCRIPTION OF THE PREVIOUS ACCREDITATION PROCEDURE

Educational programs 6B01509 - "Chemistry-Biology", 6B01512 - "Geography-History" of the NAO of Shakarim University (Semey, Kazakhstan) external assessment of compliance with standards are held for the first time.

### 6.1 Standard "Educational Program Management"

*The organization of higher and (or) postgraduate education should have a published quality assurance policy that reflects the relationship between research, teaching and learning.*

*The organization of higher and (or) postgraduate education must demonstrate the development of a culture of quality assurance, including in the context of EP.*

*Commitment to quality assurance should apply to any activity performed by contractors and partners (outsourcing), including the implementation of joint / double degree education and academic mobility.*

*The EP management demonstrates transparency in the development of the EP development plan, containing the start dates for implementation, based on an analysis of its functioning, the real positioning of the PA and the focus of its activities on meeting the needs of the state, employers, students and other stakeholders.*

*The EP management demonstrates the existence of mechanisms for the formation and regular revision of the EP development plan and monitoring its implementation, assessing the achievement of learning goals, meeting the needs of students, employers and society, making decisions aimed at continuous improvement of the EP.*

*The EP management should involve representatives of stakeholder groups, including employers, students and teaching staff in the formation of the EP development plan.*

*The management of the EP must demonstrate the individuality and uniqueness of the EP development plan, its consistency with national priorities and the development strategy of the organization of higher and (or) postgraduate education*

*The organization of higher and (or) postgraduate education must demonstrate a clear definition of those responsible for business processes within the EP, an unambiguous distribution of staff duties, and delimitation of the functions of collegial bodies.*

*The management of the EP must provide evidence of the transparency of the educational program management system.*

*The management of the EP must demonstrate the existence of an internal quality assurance system of the EP, including its design, management and monitoring, their improvement, decision-making based on facts.*

*The management of the EP must carry out risk management, including within the framework of the EP undergoing primary accreditation, as well as demonstrate a system of measures aimed at reducing the degree of risk.*

*The management of the EP should ensure the participation of representatives of employers, teaching staff, students and other interested parties in the collegiate management bodies of the educational program, as well as their representativeness in making decisions on the management of the educational program .*

*OO must demonstrate innovation management within the EP, including the analysis and implementation of innovative proposals.*

*The management of the EP must demonstrate evidence of readiness for openness and accessibility for students, teaching staff, employers and other interested parties.*

*The management of the EP must be trained in education management programs.*

The evidentiary part

Educational programs (EP)6B01509 – "Chemistry-Biology" and 6B01512 "Geography-History" by bachelor's degree level, forms of study - full-time; terms - full, languages of instruction - Kazakh, Russian.

The University conducts educational activities for the training of personnel according to the specified EP v in accordance with the state license:based on the State license no. KZ38LAA00018432 dated 06/25/2020 and appendices to the license issued by the State Institution "Committee for Control in the Field of Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan".

The training is conducted in the state and Russian languages in full-time and full-time with the use of distance technologies. Duration of study: on the basis of secondary general education - 4 years.

The graduating department is the Department of Natural Sciences.

The staff of the Department of Natural Sciences 6B01509 – "Chemistry-Biology",

6B01512 "Geography-History" consists of 7 candidates of Sciences, 2 PhD, 9 masters, 1 specialist.

The management of the EP is trained in educational management programs as part of advanced training. For example, Mukaev Zh.T., Sapakova A.K. from July 1 to July 11, 2019, they took advanced training courses and received a certificate of the "Summer School of Transformational Management" of the Swiss School of Applied Sciences for Economics and Management. In 2022, the head of the department, PhD, A.M. Khimzhanova, took 80-hour advanced training courses "Educationalladership", organized jointly with Nazarbayev University.

In order to form a student contingent at the departments, a plan of the department for career guidance is drawn up annually at the beginning of the academic year. Issues of training specialists, in accordance with the objectives of the EP, are considered at meetings of the Faculty Council, the Academic Council of the University, the Academic Council of the University, departments. The management of the university, teaching staff, students, employers, representatives of business communities are participants in the formation of the Development Plan of the EP. Representatives of employers, specialists from the practice bases are invited to develop and examine the EP.

The Department of Natural Sciences has plans for the development of EP 6B01509 – "Chemistry-Biology" and 6B01512 – "Geography-History", designed to improve the quality of educational programs during the formation of professional competencies of future specialists of chemistry and biology teachers, geography and history teachers.

Outsourcing activities of EP 6B01509 – "Chemistry-Biology" and 6B01512 – "Geography-History" are carried out by conducting production, pedagogical, research practices, this activity is carried out by the practice bases, in particular by the general education schools of the city of Semey. The results of the internship are reflected in the reports of students.

The management of the EP is working to inform stakeholders about the results of the implementation of the quality assurance policy. Stakeholders are informed about the results of the implementation of the quality assurance policy during the open days.

The Faculty and departments are working to collect and analyze information about the quality of training specialists at the university by questioning employers, students, holding meetings with employers and the annual "Graduate Fair".

Instagram Facebook, social networks (Facebook, Instagram) ensures that internal and external consumers of educational services are informed about the activities of the department and students of the Educational institution by placing the main documents on information stands, the official website of the University, and social networks.

The University has a Center for Social Monitoring and Forecasting (hereinafter - CSMP), which carries out its work on the basis of the Regulations on CSMP and participates in the activities of the University through sociological monitoring of public opinion on the quality of educational services according to the work plan, carries out research projects.

The main work on the formation of the educational program is carried out by the staff of the department, the heads of the EP invite students and employers to participate in the inclusion of new disciplines in connection with the change in the content of the secondary school education program. As a result, new disciplines were introduced into the QED, the complexity and sequence of studying disciplines were changed.

For the development of the EP a number of elective disciplines have been developed and included in the QED: in EP 6B01512 – "Geography-History", on the recommendation of employers, the disciplines of Country studies and the basics of political geography, Environmental Management and geocology, the Basics of Geoinformatics, ethnology and history of the Turkic peoples are included;

At the suggestion of employers, the disciplines "Landscape design" and "Forms and

methods of STEAM training" are also included in EP 6B01509 – "Chemistry-Biology".

The formation of the EP is carried out with the involvement of stakeholders. They participate in collegial management bodies, such as the Faculty Council, the Academic Committee of the EP the Quality Assurance Commission at the Faculty. The collegial bodies represented at their level and within their competence resolve issues related to the management of the OP.

The developers of the EP for the new 2018 classifier included representatives of employers and students:

Table 1.1 - Representatives of employers and students -developers of EP

EP	Academic committee member	Position, place of work
6B01509 Chemistry- Biology, 2020	Aubakirova Alma Medetovna	Director Municipal state institution "Multiprofile gymnasium named after Shakarim with teaching in three languages" Semey
	Kenzhegazina Dana Yerbolovna	Student of the HB-802 group
6B01509 Chemistry- Biology, 2021	Kaiyrzhanov B.T.	Director of NIS Semey city
	Kurmangalieva B.K.	director No. 16 of the secondary school named after T. Amanov
	Abylkasymov K.A.	Director No. 39 of the secondary school
	Azatuly Yerkhat	Student of the HB-903 group
6B01509 Chemistry- Biology, 2022	Uysingazina Aigul Alimbekovna	Principal of secondary school No. 17 in Semey
	Azatuly Yerkhat	Student of the HB-903 group
6B01512 "Geography- History",2021	Aubakirova Alma Medetovna	Director Municipal state institution "Multiprofile gymnasium named after Shakarim with teaching in three languages" Semey
	Rashitova Ulzhan Rashitkyzy	Student of group GI-801
6B01512 "Geography- History",2022	Mukhtarova Shynar Mubarakovna	Teacher-researcher in geography, School - gymnasium No. 37
	Zakaria Zhansaya Amankovyna	Student of group GI-901

### Analytical part

The data of a comprehensive analysis by the experts of the VEC NAAR allow us to conclude about the advantages of Shakarim University in the region and priority areas of strategic development.

The members of the external expert commission revealed that, in general, the teaching staff, employers, graduates, student activists participate in the implementation of the policy of ensuring the quality of education.

At the internal level, the evaluation of the policy of ensuring the quality of education by students is monitored on the basis of their systematic questionnaire. In addition, the Academic Committee annually considers issues related to the implementation of the quality assurance policy at the university, which is documented.

The university has adopted the Rules of Academic Integrity, where the main principles of academic integrity are: integrity, copyright protection, open exchange of information and ideas between teachers and students.

The management of accredited educational institutions is carried out at the university in accordance with the development of educational services in the region, according to the stated mission, goals and objectives of Shakarim University.

According to the results of the visit, the Shakarim VEC University notes that the structural units serving the accredited programs of cluster No. 3 have a sufficient classroom fund: there are methodological offices, laboratories, libraries in each academic building. The educational process of preparing students is carried out in educational and specialized classrooms, reading and sports halls, computer classes with Internet access, connected to a local network.

For the development of educational programs, the "Graduate Models of the NAO "Shakarim University of Semey" are used. The management of the EP notes the availability for interaction with students, teaching staff, employers through personal reception, e-mail.

Reviews of accredited educational programs are provided from representatives of employers, however, the EXC notes the formal application of the monitoring procedure and the revision of educational programs. As a result, they do not fully reflect feedback and affect the effectiveness of the implementation of accredited EP one of the main goals of which is to identify, predict the risks of EP and the need to fully meet the needs of students.

The Commission notes that the main result of the quality of education should be the development of procedures that ensure the real participation of stakeholders in the formation of the development plan of the OP. When discussing EP Development Plans, they are held with a limited number of representatives of interested parties, respectively, all proposals and amendments remain formal to a greater extent.

The management of accredited educational institutions needs to fully identify, analyze and assess potential risks for the organization and for its individual activities based on facts, survey results, monitoring of the educational process and other sources.

The survey of teaching staff given during the visit of the EXC IAAR showed that involvement in the process of making managerial and strategic decisions is very good -72.5%, good – 25%, relatively bad – 2.5%.

The survey of teaching staff also showed the perception of the management and administration of the university of criticism in their address: very good less than 50% and good 46.25%, relatively bad 7%.

Analyzing the EP on the content of the standard "Educational Program Management" in accredited areas, the commission notes:

***Strengths/best practice on EP 6B01509 - "Chemistry-Biology", 6B01512 - "Geography-History":***

- The organization of education as a whole demonstrates commitment to a culture of quality and mature culture at all levels of activity: including top management, teaching staff and students

**VEC recommendations on EP 6B01509 - "Chemistry-Biology", 6B01512 - "Geography-History":**

- Develop an action plan to ensure mechanisms for analyzing the effectiveness of changes in order to identify and predict risks during the implementation of the EP (Deadline: 01.01.2024);

- The management of the EP to develop a procedure that ensures the real participation of stakeholders in the formation of the development plan of the EP (Deadline: September 2023);

- To carry out constant monitoring of compliance of educational program development plans with University development strategies (Deadline: September 2023).

***Conclusions of the EXC by criteria:***

According to the criteria of the standard "Educational Program Management", 17 criteria were disclosed, of which 1 is a strong position, 14 are satisfactory, and 2 suggest improvement.

## 6.2 Information Management and Reporting Standard

*The OO must demonstrate the existence of a system for collecting, analyzing and managing information based on the use of modern information and communication technologies and software, and that it uses a variety of*

*methods to collect and analyze information in the context of the EP.*

*The management of the EP must demonstrate the existence of a mechanism for the systematic use of processed, adequate information to improve the internal quality assurance system.*

*EP management must demonstrate fact-based decision making.*

*Within the framework of the EP, a system of regular reporting should be provided, reflecting all levels of the structure, including an assessment of the effectiveness and efficiency of the activities of structural units, scientific research.*

*The PA must establish the frequency, forms and methods for assessing the management of the EP, the activities of collegial bodies and structural divisions, top management, and the implementation of scientific projects.*

*The OO must demonstrate the determination of the procedure and ensuring the protection of information, including the identification of persons responsible for the reliability and timeliness of the analysis of information and the provision of data.*

*An important factor is the availability of mechanisms for involving students, employees and teaching staff in the processes of collecting and analyzing information, as well as making decisions based on them.*

*The management of the EP must demonstrate the existence of a mechanism for communication with students, employees and other stakeholders, as well as mechanisms for resolving conflicts.*

*OO must demonstrate the availability of mechanisms for measuring the degree of satisfaction with the needs of teaching staff, staff and students within the framework of the EP.*

*The PA should provide for an assessment of the effectiveness and efficiency of activities, including in the context of the EP.*

*Information expected to be collected and analyzed within the framework of the EP should take into account:*

- *key performance indicators;*
- *dynamics of the contingent of students in the context of forms and types;*
- *level of academic achievement, student achievement and expulsion;*
- *satisfaction of students with the implementation of the EP and the quality of education at the university;*
- *availability of educational resources and support systems for students.*

*PA must confirm the implementation of the procedures for processing personal data of students, employees and teaching staff on the basis of their documented consent.*

### ***The evidentiary part***

The main information flow begins with the official site of the <https://shakarim.edu.kz/>, as well as an internal information and educational portal through which applicants and any visitor to the site can get acquainted with the news and events taking place at the university, academic policy, graduate model, additional refresher courses and self-development, with the teaching staff etc.

AIS "Semgu" electronic document management system, put into operation from April 2022. The electronic document management system is designed to ensure a paperless, legally significant exchange of documents between all participants in the university's activities.

Access to information is differentiated in the context of students, faculty, and university staff. Personal information (academic performance, payment, correspondence, etc.) is available only to the owner. For example, a student will not see the academic performance of another student, the teacher does not see information about student tuition fees. At the same time, an employee posting information on the corporate portal can restrict access independently. Students, employees and teaching staff document their consent to the processing of personal data.

In accordance with the Law of the Republic of Kazakhstan dated May 21, 2013 No. 94-V "On personal data and their protection", Shakarim University has a privacy policy for personal data of teaching staff and students.

The information system of the University provides constant monitoring of activities on the indicators of the evaluation of the educational process aimed at customer satisfaction and the fulfillment of the mission adopted by the University and is a single information network that includes all computers, information resources (web portals, file servers), telephone network, notification and video surveillance systems that allow you to effectively manage the educational process and all information resources, including access to the university's Wi-Fi wireless network with Internet access.

The main information management processes are described in the rules for organizing the educational process on the credit technology of Shakarim University, in the annual plans of the

university, departments and structural divisions. The management of the university, as well as departments and structural divisions of the university are responsible for the functioning of the system, collection and monitoring of information and its reliability.

The reliability of the information provided to the management at the university is ensured by the vice-rectors, the chief of staff, as well as through the study of materials on the inspection of structural units during the academic year.

All structural divisions carry out their activities in AIS "Semgu", sections and information in the system are updated, keeping it up to date.

In order to analyze and comply with the educational process with regulatory documents, constant ongoing monitoring of the organization of the quality system of the educational process is carried out by checking departments and reports of heads of departments, deans at meetings of the Academic Council of the university.

The monitoring of the quality of the teaching staff's educational activities also includes a system of individual reports and plans, which are discussed and approved at the meetings of the departments and are the basis for compiling and correcting reports and plans of departments and the university as a whole.

On the official website of the university, the information posted for open access is analyzed and verified, the deadlines for updating the information are set by the structural units responsible for providing reliable and timely information (including the translation of information into Kazakh and English).

Based on the individual plans of the teaching staff of the department approved by the dean, information is collected on the activities of the teaching staff for the academic year.

Students' satisfaction with the quality and content of the educational program, the passage of professional practice, the solution of employment issues, as well as the survey of employers is determined through a multi-level questionnaire system. If necessary, measures are taken to eliminate the shortcomings indicated in the questionnaires. The survey of university students is carried out constantly. The results of the survey are discussed at the collegiate bodies of the university. Corrective actions are taken based on the results of the survey.

The safety of information is provided by the Information Technology Center, which is responsible for the operability and continuous improvement of servers designed for storing and processing information.

Smartsemsu is an automated information system for employees to systematize and simplify the types of statistical reports on the contingent of students according to various indicators, the layout of the contingent of students for all types of quotas for admission, put into operation from January 2022 - supplemented with types of reports as needed.

"Admin panel.Shakarim" is a supervisor's panel for visual representation of quantitative and qualitative information about the university's activities, put into operation since November 2021 – at the filling stage.

"Studentshakarim" - a new portal for students, will be put into operation in stages from the 2nd semester of the 2022-2023 academic year.

Talapker is a portal for organizing the work of the admissions committee, put into operation when admitting applicants for the 2022-2023 academic year.

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

The Commission notes that Shakarim University has a system of informing all employees, faculty, students through electronic mailing of internal and external documents on structural units.

The publication of the necessary information is observed on the university's website, and information stands are also installed in the buildings. Informing interested parties is carried out through direct mailing by e-mail. At the same time, the members of the VEC note the irregularity



of updating information on the university's website in the context of the adopted changes in the OP.

The official website of the university, wall stands of deans' offices, departments where the schedule of classes, schedules of the educational process, the schedule of exams are placed are used as sources of informing students.

Access to information is differentiated in the context of students, teaching staff, university staff. Personal information is available only to the owner. For example, a student cannot see the progress of another student. Copying and transfer of personal data of teaching staff and students to third parties is strictly prohibited. Students receive a login and password to their personal account from the dean's office or from the adviser with a personal signature upon presentation of an identity document. Records of progress in all disciplines, GPA (GradePointAverage) are kept.

The collection and analysis of information on the status of processes is carried out within the framework of internal audit at scheduled intervals to establish that the quality assurance system meets the requirements of regulatory documents and relevant standards, as well as planned activities, is maintained in working order.

Analyzing the accredited OOP on the content of the standard "Information Management and reporting, the commission notes:

**Strengths/best practice on EP 6B01509 - "Chemistry-Biology", 6B01512 - "Geography-History":**

- The university has a unique system for collecting, analyzing and managing information based on modern information and communication technologies and software.

**VEC recommendations on EP 6B01509 - "Chemistry-Biology", 6B01512 - "Geography-History":**

- It is necessary to establish the frequency and responsibility for the presentation / updating of information on the websites of structural units (in particular: in the section science-seminars, webinars, conferences; section academic mobility, student achievements, etc.) (Deadline 01.09.2024). Выводы ВЭК по критериям:

According to the Information Management and Reporting standard, 17 criteria have been disclosed, 1 of which has a strong position, 16 are satisfactory.

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

*The OO must define and document the procedures for developing the EP and their approval at the institutional level.*

*The management of the EP should ensure that the content of the EP complies with the established goals, including the intended learning outcomes.*

*The management of the EP must demonstrate the existence of mechanisms for reviewing the content and structure of the EP, taking into account changes in the labor market, the requirements of employers and the social demand of society.*

*The management of the EP should ensure the availability of developed models of the EP graduate, describing the learning outcomes and personal qualities.*

*The management of the EP must demonstrate the conduct of external reviews of the content of the EP and the planned results of its implementation.*

*The qualification awarded upon completion of the EP must be clearly defined and correspond to a certain level of the NSC and QF-EHEA.*

*The EP management should determine the influence of disciplines and professional practices on the formation of learning outcomes.*

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

*The management of the EP must provide evidence of the participation of students, teaching staff and other interested parties in the development of the EP, ensuring its quality.*

✓ Руководство ОП должно обеспечить соответствие содержания учебных дисциплин и планируемых результатов уровню обучения (бакалавриат, магистратура, докторантура).  
*The structure of the EP should provide for various types of activities that ensure the achievement of the planned learning outcomes by students.*  
*An important factor is the correspondence between the content of the EP and the learning outcomes of the EP implemented by organizations of higher and (or) postgraduate education in the EHEA.*

### **The evidentiary part**

The implemented EP are developed on the basis of normative legal acts in the field of higher and postgraduate education, as well as university documentation:

The Law of the Republic of Kazakhstan "On Education" dated 27.07.2007, No. 319 – III, as amended on 04.07.2018.

State Mandatory Standard of Higher Education, Decree of the Government of the Republic of Kazakhstan dated October 31, 2018 No. 604, as amended on November 1, 2018 No. 17669 and the newly approved GOSViPO (Order of the Ministry of Education and Science of the Republic of Kazakhstan dated July 20, 2022 No. 2.);

Standard rules of activity of educational organizations implementing educational programs of higher and (or) postgraduate education. Order of the Ministry of Education and Science of the Republic of Kazakhstan dated 30.10.2018, No. 595;

Rules of the organization of the educational process on credit technology of training. Order of the Ministry of Education of the Republic of Kazakhstan dated April 20, 2011 No. 152.

Regulations on the educational program of Shakarim University. P 042-1.06-2021.

Regulations on Academic Committees of Educational Programs of Shakarim University. P 042-1.18-2021.

The EP is formed in accordance with the Dublin Descriptors agreed with the European Classification Framework. The qualification obtained upon completion of EP 6B01509 - Chemistry-Biology and 6B01512 "Geography-History" corresponds to the 6th level of the NSC.

The review of the EP is carried out by experts from among the university's partners, employers.

In the Register of educational programs of higher and postgraduate education, the achievability coefficient is according to EP 6B01509 Chemistry-Biology -84.81%; EP History – Geography - 89.22%.

The content of higher and postgraduate education consists of disciplines of three cycles - general education disciplines, basic disciplines and profile disciplines. The OOD cycle includes the disciplines of the compulsory component, the university component and (or) the component of choice.

The educational program contains:

- 1) theoretical training, including the study of cycles of general education, basic and profile disciplines, with a volume of 190 credits;
- 2) additional types of training - professional practice - 30 credits, physical education - 8 credits;
- 3) intermediate and final attestations - 12 credits.

In connection with the approval of the State mandatory Standards of Higher and Postgraduate Education (Order of the Ministry of Internal Affairs of the Republic of Kazakhstan dated July 20, 2022 No. 2), adjustments were made to the OOD cycle. The scope of the EP disciplines is 56 credits.

Every year, the university develops a catalog of elective disciplines, which is a systematized annotated list of all elective component disciplines and provides students with an alternative choice of elective academic disciplines.

The full academic load of one academic year includes 60 academic credits (1800 academic hours), one semester – 30 credits. One academic credit corresponds to 30 academic

hours. The main criterion for the completion of the bachelor's degree program is the development of 240 academic credits for the entire period of study, including all types of educational and scientific activities of the bachelor.

All elective disciplines are developed taking into account the recommendations of employers, leading experts in the field of chemistry, biology, geography, history and current trends in the development of science and technology.

The disciplines of the OOD cycle form a system of general competencies that ensure the socio-cultural development of the individual. Cycles of basic disciplines are interdisciplinary and multidisciplinary in nature, providing training at the intersection of knowledge. The disciplines of the PD block form special professional competencies.

During the visit, the VEC members were shown the conditions for passing and conducting an internship. The practice takes place in the vicinity of the city in order to get acquainted with the biodiversity of the local flora and fauna.

The basis of pedagogical practice of EP 6B01509-Chemistry-Biology and 6B01512-Geography-History are educational organizations and organizations of technical and vocational education in Semey.

Pre-graduate practice of students takes place on the basis of practices, educational department. The practice bases of EP 6B01509-Chemistry-Biology and 6B01512-Geography-History are: KSU Secondary School No. 31 Semey; KSU Secondary School No. 22 Semey; KSU Gymnasium No. 37 Semey; KSU Secondary School No. 39 Semey KSU; Secondary School No. 16 Semey, etc.

Employers' participation in the development of the EP is carried out by consulting theses (projects), reviewing theses, guiding practice in the workplace, acting as employers.

#### **Analytical part**

Accredited educational institutions are provided with educational and methodological documentation in accordance with Kazakhstan requirements: state mandatory standards of education; standard and working curricula of educational programs; standard and working curricula of disciplines.

The activity of the practice base corresponds to the direction of accredited educational programs. The practice bases meet the requirements and content of the production practice. With the consent of the department, the student can choose the practice base independently, provided that they meet the requirements that ensure the implementation of the practice program in full.

The evaluation of the quality of educational programs for educational programs was carried out by the VEC on the basis of an analysis of curricula, a catalog of elective disciplines, a working curriculum for the academic year, a questionnaire of teaching staff and students.

The members of the VEC note that when planning and implementing educational programs, the necessary integrity must be ensured, combining the required ratio between the theoretical and practical components of the educational process. However, the content of the modules does not correspond to the direction of achieving professional, social and general cultural competencies by students.

The proposed elective courses OP6B01509 - Chemistry-Biology and 6B01512 "Geography-History" are focused on the pedagogical orientation of the theoretical discipline, serve the development of related academic subjects on an interdisciplinary basis, such disciplines as "Mathematics in Natural Science", "Biochemistry", "Chemical Ecology", "Analysis of natural objects", "Landscape gardening and design" and others .

The content of the accredited OP6B01509 - Chemistry-Biology was developed without compliance with the established goals and planned learning outcomes. The content of OP6B01509 - Chemistry-Biology is developed with a "bias" in general education disciplines. When reviewing, developing and approving the EP management does not adhere to a systematic approach to achieving its goals, for example:

- at the meeting of the academic council on 27/02/2019, a decision was made to introduce

the discipline scientific foundations of natural science for 4 courses into the EP and on 18/03/2021 the academic council excludes the same discipline, but it is again present in the EP approved in 2022;

- presence in the EP "... FUNDAMENTALS ..." on the final course;
- the presence in the EP of such disciplines as "Abiology", "Landscape gardening and design" and other non-core disciplines for teachers of biology chemistry, in the absence of fundamental physics disciplines (is a prerequisite for the section "physical and colloidal chemistry" of at least 10 credits (including "chemical thermodynamics", "chemical kinetics", "theory of solutions, "chemistry of IUDs" and others that are also not presented in the OP), geography, ecology, microbiology, molecular biology, physico-chemical research methods (it is impossible to be a laboratory assistant in research institutions without having studied such a discipline, as stated in the passport of the OP), theory and practice of educational work (as shown by the analysis of the syllabus on the discipline "Pedagogy" does not overlap this discipline);

- in the discipline "Osindikter anatomiyasy men morphologiyasy", the topic "Osindikterdin suga zhane zharykka baylanystyecologiyalyk toptary" does not correspond to the module

, all this proves the previously stated claims to the quality of the EP in the field of training competent graduates.

By itself, the structure of the survey set out on the site does not allow you to easily and simply determine the structure of an individual educational trajectory, for example, it is completely unclear what is an alternative to what and how many disciplines are necessary, you can and should choose:

Name of the discipline	Cycle/ Comp.	Semester	Credits	Total hours
Problems in chemistry of advanced complexity	BD/EC	6	5	150
Intersubject communications of the school course of chemistry	BD/EC	6	5	150
Methods of teaching biology	BD/EC	6	5	150
Methodology for conducting a school chemical experiment	BD/EC	6	5	150
Methods for solving problems in physical chemistry	BD/EC	6	5	150
Methodology for solving problems in chemistry	BD/EC	6	5	150
Scientific and methodological foundations of teaching chemistry in an ungraded school	BD/EC	6	5	150
Modern approaches in education	BD/EC	6	5	150

The QED should reflect all the post-requirements of each academic discipline. The VEC notes that in the post-requirements of basic and profile disciplines accredited by the EP specific names of disciplines are not prescribed, for example, in physical and colloidal chemistry, the prerequisite is physics, which is absent in the OP.

In 2020, teachers Sapakova A.K., Munlykbaeva M.B. took part in the joint and independent work of the International project SCILLA. Nevertheless, the VEC notes that the main areas of cooperation of the department in accordance with the principles of credit technology are represented by low academic mobility of students and teachers, as well as multilingual education has stopped and work is not underway to open joint/double-degree EP

The management of EP 6B01512 - "Geography-History" did not demonstrate the readiness of students for professional certification. The university has no joint educational programs working with foreign universities.

On the basis of meetings (including online), conversations, interviews, questionnaires of employees, teaching staff, students, familiarization with documentation, the following is noted:

**Strengths/best practice on EP 6B01509 - "Chemistry-Biology", 6B01512 - "Geography-History":**

- According to this standard, EP has no strengths.

**Recommendations of the EKPO EP 6B01509 - "Chemistry-Biology", 6B01512 - "Geography-History":**

- Analyze the content of accredited educational institutions and develop an action plan aimed at developing cooperation with Kazakh and foreign educational organizations (Deadline: 01.01.2024).

**Additional recommendations of the EKPO EP 6B01509 - "Chemistry-Biology":**

- To optimize the EP and consider the possibility of including the following courses in it: physics, geography, ecology, plant physiology, microbiology, molecular biology, physico-chemical research methods, theory and practice of educational work (Deadline: September 2023);

- Review the post-requirements of the basic and profile disciplines accredited by the EP in order to link them to specific disciplines (it is advisable to specify the names of the mastered disciplines in the post-requirements) (Deadline: September 2023);

- To analyze the title of the V module "Interdisciplinary and experimental activities" in accordance with the disciplines being read (Deadline: September 2023);

- Consider the need to find the disciplines "Forms and methods of organizing STEM education" and "Pedagogical experiment and experimental data processing" in module 5 (Deadline: September 2023);

- To analyze the content of the course "Physical and colloidal Chemistry" and consider the possibility of increasing its complexity in accordance with its components such as - Solution Theory, Chemical Thermodynamics, Chemical Kinetics, Electrochemistry, Navy Chemistry (Deadline: September 2023);

**Additional recommendations of the EKPO EP 6B01512 - "Geography-History":**

- Determine the list of courses, the content of which is aimed at the possibility of preparing students for professional certification in accordance with professional standards (Deadline: September 2024);

**Conclusions of the VEC by criteria:**

- According to this standard, 12 criteria were disclosed, 7 – satisfactory, 5 - suggest improvement.

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

*The PA should determine the mechanisms for monitoring and periodically evaluating the EP to ensure the achievement of the goal and meeting the needs of students, society, and show the focus of the mechanisms on the continuous improvement of the EP.*

*Monitoring and periodic evaluation of the EP should include:*

- *the content of the programs in the light of the latest achievements of science in a particular discipline to ensure the relevance of the discipline taught;*
- *changes in the needs of society and the professional environment;*
- *workload, performance and graduation of students;*
- *effectiveness of student assessment procedures;*
- *expectations, needs and satisfaction of students with EP training;*
- *educational environment and support services, and their compliance with the objectives of the EP.*

*The management of the EP must demonstrate a systematic approach in monitoring and periodically assessing the quality of the EP.*

*OO, management of the EP should determine a mechanism for informing all interested parties about any planned or undertaken actions in relation to the EP.*

*All changes made to the EP must be published*

### **The evidentiary part**

The educational programs (EP) of the bachelor's degree 6B01509 "Chemistry-Biology", 6B01512 "Geography-History" are developed on the basis of the provisions of the Law of the Republic of Kazakhstan "On Education", State mandatory standards of Education of the Republic of Kazakhstan, Standard rules of activity of educational organizations implementing educational programs of higher professional education, regulatory documents of the Ministry of Science and Higher Education of the Republic of Kazakhstan and regulatory documents of the university that determine the content and procedure for the formation of educational programs.

During the academic year, the University monitors and periodically evaluates the EP in order to ensure that the goal of the EP is achieved and meets the needs of students and society. The results of these processes are aimed at continuous improvement of the OP.

The monitoring and periodic evaluation procedure for EP 6B01509 – "Chemistry-Biology", 6B01512 – "Geography-History" at Shakarim University is carried out on the basis of all internal regulatory documents.

The management of the EP provides a revision of the content and structure of the EP within the framework of modular training, taking into account changes in the labor market, the requirements of employers and the social order of society. The EP is updated in connection with the change of the SSO, the introduction of new disciplines at the request of stakeholders.

Internal expertise is carried out by Academic committees in the areas of personnel training, leading teaching staff, students.

External expertise – representatives of educational organizations in the region, other universities, employers, strategic partners.

When reviewing the content and structure of the EP taking into account changes in the labor market, the requirements of employers and the social request of the society, working groups on the revision of the EP as well as the following collegial bodies take part: the Academic Council of the university, the Quality Assurance Commission of the Faculty and the Faculty Council.

The educational and methodological content of the EP includes a QED, a list of academic disciplines of the university component, Educational content, a cross-cutting program of professional practice, as well as reference and information resources.

The development plan of the university is publicly discussed with representatives of all interested parties, on the basis of proposals and amendments of which the authorized collegial body of the university makes changes to the project. Based on the results of monitoring the satisfaction of employers' needs, changes are being formed in the EP aimed at improving them.

The analysis of the correspondence of the name and content of the disciplines to the current directions of the development of science is carried out by reviewing educational programs and catalogs of elective disciplines by employers (KSU SOSH No. 18, KSU "Zharkyn secondary school", NIS of Semey, KSU SOSH No. 39, etc.).

At the end of each semester, an analysis of the activities of teaching staff is carried out, with discussion at a meeting of the department and decision-making (mutual visits, schedule of open classes, etc.) (protocol No. 5 of 12/20/2022).

The organization of the system for monitoring the educational achievements of students is carried out by the EP, the DOOP and the Dean's Office, which report to the Vice-rector for Academic Affairs. The forms of control, the procedure for scoring points and control and measuring tools are developed by all teachers of the department, based on the specifics of the discipline, and approved in accordance with the established procedure by the head of the department. The general assessment policy for students, including the timing of the assessment, evaluation criteria, methods and forms of conduct, is reflected in the syllabus of each discipline.

The University implements a policy of improving the quality of education by promoting the principles of academic integrity.

Shakarim University has a licensed software system for detecting text borrowings in

educational and scientific works "TURNITIN". The General Agreement with the California company LLC "TURNITIN" (USA) dated 04/13/2022 Developed and approved the Regulation "On the procedure for checking written works for the presence of borrowings using the "TURNITIN" system (P 042-2.09-2022 dated 05/23/2022).

The study of students' satisfaction with the EP is carried out by means of a questionnaire by employees of the Center for Social Monitoring and Forecasting (CSMP) of the university. To solve this problem, CSMP and interviewing on specially designed questionnaires:

- Assessment of students' satisfaction with the quality of educational services
- Questionnaire for first-year students: "Adaptation of junior students to student life";
- "The level of students' satisfaction with the quality of educational services provided at the university and their mood regarding their chosen specialty";
- Questionnaire "Questionnaire of a graduate of Shakarim University"; University "Materials of sociological research".

All interested parties are informed about any planned or taken actions in relation to the EP All changes made to the EP are published on the website and recorded in the minutes of the meetings of the departments (Minutes No. 7 of 02/15/2022).

External monitoring of the EP is carried out by participating in the ranking of the NCE "Atameken". In 2022, the procedure of external ranking of the EP was carried out. According to the results of the ranking EP 6B01512 – Geography-History" took 7th place out of 20 universities in the republic.

#### **Analytical part**

Taking into account the Development Plan of the Shakarim University, measures will be taken to assess the implementation of the goals of the EP and their results, on the basis of which it is possible to form conclusions on optimizing the content and form of educational activities within the framework of the EP

In order to ensure the effective implementation of educational programs and the creation of a favorable learning environment at the university, cooperation with students, employers and other stakeholders is used on quality assurance issues, an intra-university quality monitoring system and the activities of cathedral, faculty and university structures for quality control and assurance.

The analysis of the questionnaire showed that, in general, students of accredited educational programs are satisfied with the quality of educational services provided. The department analyzes the progress of students, the conformity of the forms of evaluation of students with the results of discipline training, evaluates the adequacy of the complexity of disciplines, according to the results of which, if necessary, changes are introduced in the complexity of disciplines. However, the VEC notes that the management of the EP has not fully systematized the assessment of the risks of the development of educational programs and for the current cluster, a mechanism for their reduction has not been developed, in particular for the formation of a contingent and staffing.

Experts note that in order to improve the internal quality assurance system, the management of the EP has not fully demonstrated the systematic use of feedback and awareness of any planned or taken actions in relation to the EP

The internal quality assurance system is conditioned by the use of various information technologies, mechanisms, developments and processes. It is important to note that the developed internal quality assurance system helps the university to flexibly respond to the needs of the labor market and the demands of society.

The members of the expert commission note that all interested persons should be aware of the systematization, updating of the content of the cluster with the participation of teaching staff, students and employers, as well as improve the forms of cooperation with stakeholders.

In addition, the VEC notes that according to the accredited EP the fully developed methods for assessing the competitive advantages of EP 6B01509 – "Chemistry-Biology",

**6B01512 – "Geography-History" were not provided.****Strengths/best practice on EP 6B01509 - "Chemistry-Biology", 6B01512 - "Geography-History":**

- According to this standard, EP has no strengths.

**Recommendations of the VEC on EP 6B01509 - "Chemistry-Biology", 6B01512 - "Geography-History":**

-The management of the EP to develop a plan for systematizing the risks of EP development, indicating the mechanisms for their reduction, in particular on the formation of a contingent and staffing (Term:01.01.2024);

- To conduct an analysis of EP in order to highlight their competitive advantages, with their further inclusion in the development programs of EP and publication on the university's website (Deadline: September 2023);

- Develop a procedure for making changes and informing all interested parties about all planned or taken actions in relation to the EP (Deadline: 01.01.2024).

**The conclusions of the VEC according to the criteria:**

According to the standard "Continuous monitoring and periodic evaluation of educational programs", 10 criteria were disclosed, 8 - have satisfactory positions and 2 - suggest improvement.

**6.5 The standard "Student-centered learning, teaching and assessment of academic performance"**

*The management of the EP should ensure respect and attention to different groups of students and their needs, provide them with flexible learning paths.*

*The management of the EP should provide for the use of various forms and methods of teaching and learning.*

*An important factor is the presence of own research in the field of teaching methods of academic disciplines of the EP.*

*The management of the EP should demonstrate the existence of feedback mechanisms on the use of various teaching methods and the assessment of learning outcomes.*

*The management of the EP must demonstrate the existence of mechanisms to support the autonomy of students with simultaneous guidance and assistance from the teacher.*

*The management of the EP must demonstrate the existence of a procedure for responding to complaints from students.*

*The PA must ensure the consistency, transparency and objectivity of the mechanism for evaluating learning outcomes for each EP, including appeal.*

*The PA must ensure that the procedures for assessing the learning outcomes of students of the EP correspond to the planned results and goals of the program, publishing the criteria and assessment methods in advance.*

*The PA should define the mechanisms to ensure the achievement of learning outcomes by each EP graduate and ensure the completeness of their formation.*

*Assessors must be proficient in modern methods for assessing learning outcomes and regularly improve their skills in this area.*

**The evidentiary part**

In accordance with the Bologna Declaration, student-centered learning (SCE) is presented as a fundamental principle in higher education: the shift of emphasis in the educational process from the "translation" of teaching staff knowledge to the development of cognitive activity of the student.

NAO "Shakarim Semey University" focuses on the interests of students and ensuring equal opportunities for students, implementing them in all spheres of life and throughout the entire period of study, starting with the process of admission and graduation. Equal opportunities are provided regardless of the language of instruction for the formation of an individual



educational program (trajectory) aimed at the formation of professional competence.

Syllabuses, test assignments, exam tickets, IUP are compiled in the language of instruction, and QED, working curricula, MOS are compiled in three languages. The training is conducted in the state and Russian languages. All students master general professional disciplines, such as foreign language, Russian, history of Kazakhstan, physical culture, socio-political knowledge module (sociology, political science, cultural studies, psychology), information and communication technologies (in English), philosophy.

Student-centered learning involves the focused development of new types of students' activities and self-development. For the development of these types of activities of students accredited by the EP, such elective courses have been introduced:

in EP "5B012500/6B01509 – "Chemistry-Biology" - Technologies of the updated content of education and criteria assessment, Forms and methods of organization of the training system, Landscape gardening and design; in EP "5B012900/6B01512 – "Geography-History" - The History of Kazakhstan in antiquity, the History of Kazakhstan in the Middle Ages, Cartography with the basics of topography, Meteorology with the basics of climatology, Ancient and medieval history of the countries of the East, etc.

Student-centered education at the university includes various forms and methods of individual learning, the use of various educational technologies, including DOT.

With student-centered learning, the educational institutions are provided and replenished with information resources of the university (library, reading rooms, computer classes, Wi-Fi, Web resources).

Table. The Fund of educational and scientific literature in the context of OP

EP	General Fund	at the state language	in Russian language	to foreign language
5B012500/6B01509 Chemistry-Biology	10503	7730	2293	480
5B012900/6B01512 Geography-History	8149	5763	1993	393

### Analytical part

The organization of external and internal academic mobility at the university is carried out on the basis of the "Regulations on academic mobility of Shakarim University in the Republic of Kazakhstan", taking into account the needs and individual characteristics of students. So, in the spring semester of the 2021-2022 academic year, a 3rd-year student of EP 6B01509 Chemistry-Biology Kydyrbekova Aida studied in Turkey, Pamukale University (order No. 80 s/k of 24.01.2022).

In 2022-2023, 3rd year students Kasym K., Zhumagalieva L., Baktybai B., will study in the spring semester in Turkey, Pamukale University (order 79 s/k of 30.01.2023).

According to internal academic mobility, in the spring semester of 2022-2023, 3rd-year students Koishybayeva D., Tanerbergen A., Arintayeva T., will study at the S.Amanzholov East Kazakhstan University (Order No. 62 s/k of 20.01.2023), in the spring semester of 2022-2023, according to the educational program 6B01512 Geography-History, they are studying in the. GI-101 student from Pavlodar Pedagogical University named after Alkey Margulan Kairzhanov Medet (order 65 s/k of 23.01.2023).

Nevertheless, the VEC notes that the main areas of cooperation of accredited EP in accordance with the principles of credit technology are presented with low academic mobility of students.

According to accredited teaching staff, the department is engaged in the development of innovative methods for lecturing, conducting practical and laboratory classes, protection and pre-protection of graduation papers: video lectures, slide presentations, working with an interactive whiteboard, using software (ORIGIN, CHEMOFFICE, ActivInspire, FreemakeVideoConverter, QuizMaker, Kahoot).

Nevertheless, the VEC notes that the management of the EP has not demonstrated for the members of the expertise the use of innovative methods for laboratory work, scientific research, the classroom fund providing stationary multimedia equipment, as well as professional, innovative programs Gaussian, Origin, GIS digital center, etc.

The teaching staff of the Department of Natural Sciences annually passes advanced training in leading universities of Kazakhstan, the training of teachers is confirmed by certificates. Nevertheless, the VEC notes the low academic mobility of teaching staff in the implementation of scientific internships in universities of the far and near abroad.

The Commissions recommend for teaching staff to optimize the widespread use of innovative methods, scientific technologies, thereby improving modern methods of evaluating learning outcomes and regularly improve their qualifications in this area.

A survey conducted among 477 students during the visit of the VEC NAAR showed that students are satisfied with the level of teaching quality - 89.6%, partially - 9.6%; 85.6% are fully satisfied with the requirements of teaching staff to the student, partially - 13.4%; 88.5% are fully satisfied with the objectivity and fairness of teaching staff, partially -10.3%; the quality of examination materials (tests and examination questions, etc.) - 88.9% are fully satisfied, partially -10.1%.

**Strengths/best practice on EP 6B01509 - "Chemistry-Biology", 6B01512 - "Geography-History":**

- According to this standard, EP has no strengths.

**Recommendations of the EKPO EP 6B01509 - "Chemistry-Biology", 6B01512 - "Geography-History":**

- The management of the EP should develop a plan for annual monitoring of the applied teaching methods of specialized disciplines in order to improve the quality of teaching (Term: permanent).

- In the plan of the meeting of the department or methodological seminars of the department / faculty to introduce issues of the effectiveness of the introduction of new teaching methods (Deadline: 01.09.2023)

- Annually post information on the results of their own research in the field of teaching methods of academic disciplines and post it on the university's website (Deadline: 01.01.2024);

- Develop a plan for the development of internal and external academic mobility among students with the definition of measurable targets (Deadline: September 2024).

**The conclusions of the VEC according to the criteria:**

According to the standard "Student-centered learning, teaching and assessment of academic performance", accredited EP have 9 - satisfactory, suggests improvement

**6.6 Standard "Students"**

*The PA must demonstrate the existence of a policy for the formation of a contingent of students in the context of the EP, ensure transparency and publicity of its procedures governing the life cycle of students (from admission to completion).*

*The management of the EP should determine the procedure for the formation of a contingent of students based on:*

- *minimum requirements for applicants;*
- *the maximum size of the group when conducting seminars, practical, laboratory and studio classes;*
- *predicting the number of government grants;*
- *analysis of available material and technical, information resources, human resources;*
- *analysis of potential social conditions for students, incl. provision of places in the hostel.*

*The management of the EP must demonstrate readiness to conduct special adaptation and support programs for newly enrolled and foreign students.*

*The PA must demonstrate the compliance of its actions with the Lisbon Recognition Convention, the existence of a mechanism for recognizing the results of academic mobility of students, as well as the results of additional, formal and non-formal education.*

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

*The PA should provide an opportunity for external and internal mobility of students of the EP, as well as readiness to assist them in obtaining external grants for training.*

*The management of the EP must demonstrate readiness to provide students with internship places, promote the employment of graduates, and maintain contact with them.*

*The PA should provide for the possibility of providing EP graduates with documents confirming the qualifications received, including the achieved learning outcomes, as well as the context, content and status of the education received and evidence of its completion*

### **The evidentiary part**

Students are the main consumers of educational programs, so their interests are at the head of the implementation of these programs. The educational environment models the following characteristics of students: individuality, the desire for greater freedom, the process of achieving integrity, personal and professional growth, independence and self-esteem. The model of formation of the contingent of students operating at the university complies with the legislation of the Republic of Kazakhstan and is based on the principle of electability by applicants of higher educational institutions and educational programs.

To increase the number of applications for admission from applicants, the faculty conducts professional orientation work with graduates of secondary schools and colleges, organizes work with parents and teachers to clarify deadlines. Meetings with potential applicants are held by members of the admissions committee and university teachers responsible for career guidance work at the department.

The assessment of students' academic achievements is carried out in accordance with the point-rating letter system of assessment and accounting of students' academic achievements, with their transfer to the traditional scale of assessments and ECTS.

The electronic AIS Student system is used, where the student's progress for the entire period of study is displayed in the personal account.

The management of theses or projects is carried out by teachers in the profile and (or) specialists corresponding to the 7th level of the national qualification framework with at least 5 years of experience and the 8th level of the national qualification framework with at least 3 years of experience.

Tickets for the final certification are compiled according to the modular educational programs (MOS) of the educational programs of the Department of "Natural Sciences" and are approved by the head of the department and the dean of the faculty.

In order to form a student contingent at the departments, career guidance work is carried out according to the plan of career guidance activities for the current academic year, which is included in the department development plan for the corresponding year, is considered at a meeting of the department and approved by the dean of the faculty (the plan of career guidance work is in the affairs of the departments).

In order to provide career guidance during the internship, students of the department conducted open educational hours for school graduates. In particular, on 03/29/2022, 3rd-year students held an open educational hour "Choosing a profession is the main guideline" for students of the 11th grade of secondary school No. 4.

At the university level, the festival "I GO TO SHAKARIM" was held, in which teachers and students of the department actively participated. More than 100 students from the city's schools took part in the festival.

In the contingent of the enrollment of students in 2019-2023, a data analysis was

presented, which showed a large increase in the number of accredited students.

Shakarim Semey University offers a list of Minor educational programs for undergraduate students. Each student has the opportunity to choose one Minor to study.

At the same time, the disciplines of additional EP are studied by students within the framework of the disciplines of VC and KV and their volume is included in the total amount of academic credits required for awarding the appropriate degree or qualification in the main EP (Rules for organizing the educational process on credit technology of education Order of the Ministry of Education of the Republic of Kazakhstan dated 12.10.2018 No. 563).

In the academic year 2021-2022, a MOOC was created at Shakarim University through the Moodle platform, Massive Open Online Courses are interactive educational courses available to a wide audience online, where each student receives a set of video lectures, homework and tests.

The Ministry of Science and Higher Education of the Republic of Kazakhstan signed a memorandum of cooperation with COURSERA. Shakarim University was included in the list of 25 higher educational institutions where the COURSERA course will be implemented and received 1000 licenses.

To help students, a student's Guide has been developed, which is located on the university's website and is available to students when entering personal data (login, password).

The compliance of the actions of the EP management with the Lisbon Recognition Convention is confirmed by the procedure for the recognition and crediting of ECTS credits obtained by the qualification of higher or postgraduate education assigned by the country of the European region.

The procedure for admitting foreign citizens to study at the university includes a mandatory procedure for the recognition and nostrification of a document issued by a country in the European region.

Confirmation of the recognition of the acquired qualifications abroad is carried out by the authorized body in the field of education and science of the Republic of Kazakhstan. So, at present, a citizen of Mongolia Amanbek A. is studying under the current cluster.

According to the program of external academic mobility during the spring semester 2021-2022 academic year according to EP 6B01509 Chemistry-Biology Kydyrbekov Aida (gr.HB-901) at the University of Pamukale (Turkey). According to the program of external academic mobility, a student in EP 6B01512 Geography-Istria 06.02.2023-06.07.2023. Rymbekov Ali Ayanuly (gr. GI-001) at the University of Dicle (Turkey), 2022-2023 academic year. Kasym Kymbat, Baktybai Baknur, Zhumagali Linura at Pamukale University (Turkey).

According to the program of internal academic mobility, students of EP 6B01509 Chemistry-Biology Koyshtybayeva Dana, Arintayeva Tolkyn, Tanyrbergen Akbota (gr.XB-001), studied for one semester from 23.01.2023 to 10.06.2023, vNAO "East Kazakhstan University named after S. Amanzholov".

When referring to the passage of industrial and pedagogical practice, the student is given a referral, a work program of professional practice, coordinated with the practice base, and a diary about the passage of pedagogical and industrial practice in accordance with the established form. The results of the internship are discussed at the final conferences held.

In order to ensure the participation of students in public works and create conditions for the socialization of young people, the regulation on "Social Credit" was approved and an electronic (KPI) database for evaluation was created. The project was started in 2021 and is still ongoing.

In May of each academic year, students who have been active in student life during the year and have achieved various achievements are awarded. Successful students are determined through the website of the university.

In the NAO "Shakarim University of Semey" there is a provision on the presentation of benefits for the payment of educational services and the award of an educational grant named

after Shakarim.

The winner of the scholarship of the President of the Republic of Kazakhstan (OP 5B012500/6B01509-Chemistry-Biology) in the 2021-2022 academic year was G. Omerkhanova, a student of gr XB-803; The grant holder of the public fund "Kazakhstan Khalkyna" Zhumagali Azhar Sarsengazykyzy ZHMF/XB-101 <https://www.taiburyl.kz/> ; Grant holder of the public fund "Kazakhstan Halkyna 2022 Rymbekov Ali Ayanuligi – 001 2022-09-20 Information about a parent's disability <https://www.taiburyl.kz/> ; The grant holder of the public foundation "Kazakhstan Khalkynakusayynov Aydin GI-201 link to the final list of students who received educational grants from the Public Foundation "Kazakhstan Khalkyn".

Benefits in the form of a 50% reduction in the amount of tuition fees, group GI-101 Zhumasheva Balnur Kayratkyzyoku zhylyn. (order No. 271 of 03.11.2022); Benefits in the form of a reduction in the amount of tuition fees 20% group HB-101 Temirkhan Diana Temirkhankyzhenildik (order No. 271 of 03.11.2022); 20-21 G. Sidorenko HB-805 Stefania Dmitrievna received a 50% discount on the 3rd year of training is not a full family.

The distribution of places in dormitories is carried out by the settlement commission. Students from among orphans and children left without parental care live in dormitories for free.

In order to provide medical care, a medical center is functioning. There are canteens in the academic buildings to provide students with meals. The University has a modern sports base, which consists of sports and recreation complexes, gym, basketball, volleyball halls.

Every year, the university holds a university-wide job fair with the participation of employers in various fields of activity. The department fills in the "Journal on the employment of graduates" on the basis of the provided employment documents (certificates from the place of work, extracts from orders for admission to the magistracy, birth certificates of a child), the "Career card of the faculty" is conducted - monitoring the employment of graduates in the first year after graduation.

An important factor is the presence of an active alumni association/association. The purpose of the Alumni Association is to facilitate the activities of Shakarim University in training specialists of a new formation and in establishing mutually beneficial relations between the university and its graduates.

The Shakarim University Alumni Association helps to keep alumni in touch with the university and with other graduates through various events, continuing education programs, online services, as well as special university events for graduates.

### **Analytical part**

Based on the results of the analysis of the "Students" standard, the commission concluded that the university has a clear policy of forming a contingent of students from admission to graduation. Newly enrolled and international students are provided with full support from the university. All students have access to academic mobility, but the members of the VEC note an insufficiently high level of its implementation.

For the purposes of the recommendation, the commission proposes to fully realize the opportunity for external and internal academic mobility of students, as well as to assist them in obtaining external grants for training.

The results of the survey of students showed that 86.8% were satisfied with the level of accessibility of the dean's office (school, faculty, department), partially - 12.4%.

Students gave a positive assessment of the university in such aspects as "The quality of services provided in libraries and reading rooms" - (89.8%), academic load/student requirements – 82%, available computer classes – 82%, scientific laboratories – 81.2%.

The average percentage of students surveyed showed the aspect of "Rest Rooms for students" - 66% of satisfied students.

Analyzing the EP on the content of the "Students" standard in accredited areas, the commission notes:

"According to the "Students" standard, 12 criteria have been disclosed, of which 0 have a strong position, 11 – satisfactory, 1 – suggests improvement.

**Strengths/best practice on EP 6B01509 - "Chemistry-Biology", 6B01512 - "Geography-History":**

- According to this standard, EP has no strengths.

**EXC recommendations on EP 6B01509 - "Chemistry-Biology", 6B01512 - "Geography-History":**

- Develop an action plan to assist in obtaining external grants for training and attracting students to participate in the program of international educational and scholarship programs (Deadline: 01.09.2024).

**The conclusions of the EXC according to the criteria:**

According to the Standard "Students" accredited EP have 11–satisfactory, 1 suggests improvement.

6.7 Standard "Teaching staff"

- ✓ *The PA must have an objective and transparent personnel policy, including in the context of the EP, including recruitment, professional growth and development of personnel, ensuring the professional competence of the entire staff.*
- ✓ *The PA must demonstrate the compliance of the staff potential of the teaching staff with the specifics of the EP.*
- ✓ *The management of the EP must demonstrate awareness of responsibility for its employees and provide favorable working conditions for them*
- ✓ *The management of the EP should demonstrate the change in the role of the teacher in connection with the transition to student-centered learning. 7.2.5 The OO must determine the contribution of the teaching staff of the EP to the implementation of the development strategy of the OO, and other strategic documents.*
- ✓ *The PA should provide opportunities for career growth and professional development of the teaching staff of the EP.*
- ✓ *The management of the EP must demonstrate readiness to involve practitioners in the relevant sectors of the economy in teaching.*
- ✓ *The PA must demonstrate the motivation for the professional and personal development of EP teachers, including encouragement for the integration of scientific activities and education, the use of innovative teaching methods.*
- ✓ *An important factor is the willingness to develop academic mobility within the framework of the EP, attracting the best foreign and domestic teachers.*

**The evidentiary part**

The personnel policy of Shakarim University is carried out in accordance with the main priorities of the university's strategy and is aimed at the implementation of high-quality professional, educational and scientific activities of the teaching staff and staff.

University teaching staff are certified for compliance with their position according to qualification requirements at least once every 3 years based on an assessment of their professional competence. The certification of teaching staff is carried out on the basis of the analysis of qualitative and quantitative indicators in the portfolio, the results of testing and interviews, according to the qualification characteristics of positions.

Based on the analysis of the compliance of the qualifications of the teaching staff of the EP "6B01509–Chemistry-Biology", "6B01512– Geography-History" with the requirements of the legislation of the Republic of Kazakhstan, it was revealed that all teaching staff implementing accredited EP have the necessary basic education corresponding to the disciplines taught. They have the appropriate qualifications and hold positions corresponding to the results of the competition for vacant positions.

Advanced training of teachers in EP 6B01509 – "Chemistry-Biology", 6B01512-Geography-History is carried out on the basis of the NAO "Shakarim Semey University", in domestic and foreign universities, in the NCPC "Orleu", Nazarbayev University, AEO "NIS", the National Testing Center and other educational organizations.

During the summer period, all teachers of the EP took 72-hour online refresher courses "Digital technologies in the educational process of distance learning" at the university. Also, from 02.02.2022 to 05.05.2022, teachers A.M. Rakhimzhanova, L.K. Kazhygeldieva, A.M. Nurpeisova, Zh.T. Mukaev took part in an online course "Educational leadership" of 80 hours, organized jointly with Nazarbayev University.

In the current academic year, teachers of EP 6B01512 Geography-History Zh.T. Mukaev, A.M. Nurpeisova, M.U. Uasheva, A.D. Baltabayeva took advanced training courses on the topic "Functional and practical application of GIS technologies in the educational process" in the amount of 36 hours at the University.

According to the program of the Ministry of Education and Science of the Republic of Kazakhstan, an invited foreign scientist to the Universities of the Republic of Kazakhstan on a working visit from 01 to 29 November 2021 visited the Department of Natural Sciences, a Turkish scientist from the Sytky Kochman University (Mugla), PhD Mammadov Ramazan Mustafaevich.

The educational program 6B01512 Geography-History, 6B01509 Chemistry-Biology involves young cadres who have completed a master's degree. In the current academic year, young teachers have had their academic workload reduced.

This year, PhD, associate professor Mukaev Zh.T. took part in the competition "The best university teacher" and became the best university teacher of 2022.

According to accredited EP part-time practical teachers from secondary schools were involved: according to EP 6B01215 Geography-History Asylbek E. - geography teacher "Nazarbayev Intellectual School of Physics and Mathematics", according to EP 6B01509 Chemistry-Biology Kitapbaeva N.A. - chemistry teacher of KSU "Secondary School No. 16 named after T. Amanov" Semey. The main requirements for practical teachers are work experience in the real sector of education.

Hourly teachers (for dual education) work on an hourly basis.

The system of awards includes corporate awards and distinctions of the university, as well as state and departmental awards. For example, in recent years, teaching staff of accredited EP received awards: Kuanyshbaeva M.G. – Certificate of Honor of the Minister of Education and Science of the Republic of Kazakhstan, 2020, Mukaev Zh.T. - Certificate of Honor of the Minister of Education and Science of the Republic of Kazakhstan, 2019, Isin A.A. - Certificate of Honor of the Minister of Education and Higher Education of the Republic of Kazakhstan 2022, Sapakova A.K. – Medal "Shakarim" 2018

Joint research works are being carried out with universities of the Republic of Kazakhstan. For example, its result is the publication of articles co-authored with teachers of Turan University in the journal included in the Scopus database, etc. According to EP 6B01512 Geography-History Hirsch index (h-index) in the Scopus database Mukaev Zh.T. – 3.

The results of research are introduced into the educational process as part of the writing of graduation papers, the development of elective courses, teaching aids and guidelines. Carried out on the basis of the act of introduction of research and development into the educational process of the university: according to EP 6B01509 Chemistry-Biology textbook by A.K. Sapakov educational and methodical manual "Chemistry esepeterin shygaru adistemesi". - Almaty: Halykaralyk zhazylym agency – 2017. – 96 p., on the discipline "Methods of solving chemical problems"; A.N. Nurekenova "Workshop on chemical ecology" Almaty, LLP "International Subscription Agency", 2017-96c.; D.R. Ontagarova, A.K. Sapakova "Himiyalyk synthesis paninin zerthanalyk zhumystaryna adistemelik nuskau" Semey, "Semey kalasynn Shak'rim atyndagy memlekettik universitetinin baspasy", 2015 – 59 p.

This year, senior lecturer D.R. Ontagarova and a 4th-year student of EP 6B01509 Chemistry-Biology took 1st place in the competition "Best Practice Supervisor and intern" among teaching staff and students of the NAO "Shakarim University of Semey".

Currently, 1 project has been submitted for the competition. So, for the period 2022-2024, the project "Development of methods for determining the maximum permissible recreational loads on tourist and specially protected natural territories of the East Kazakhstan region using GIS/remote sensing technologies" is being implemented. The amount of financing is 14 004 228.89 tenge.

### **Analytical part**

According to the results of the analysis in the context of the "Teaching staff" standard, the commission concluded that Shakarim University has a fairly objective personnel policy.

The full potential of the teaching staff of the Department of Natural Sciences corresponds to the strategy of the university and its goals, the level and specifics of the OP.

However, the WEC commission notes that the university has insufficiently demonstrated the compliance of the qualitative composition of the teaching staff with the established qualification requirements, the strategy of the university, the goals of the EP so at the Department of Natural Sciences, the expert commission identified doctoral students giving lectures for students accredited by the EP in particular, on the OP-Chemistry-Biology.

In the 2021-2022 academic year, a MOOC, Massive Open Online Courses, was created at Shakarim University through the Moodle platform. In the current academic year, video lectures by teachers of EP 6B1509 Chemistry-Biology L.K. Kazhygeldieva and L.Sh. Zekenova on the discipline "Age physiology and psychology" have been uploaded.

The members of the commission note that the department has an insufficient share of disciplines in which information and communication technologies are used, including Moodle, Massive Open Online Courses, GIS technologies, etc., in the scientific and educational process (increase the share to 80%, 04.2024) within the framework of the Geography-History EP

The Commission notes the low share of the faculty of the department in the implementation of external and internal academic mobility (2024).

In addition, the members of the VEC recommend, in particular, to increase the scientific and human potential for the EP "Chemistry-Biology".

The results of the survey of teaching staff showed that 75% of respondents believe that the university provides very good opportunities for professional development of teaching staff, 23.8% are good, 1.2% are relatively bad; 71.3% consider the opportunities provided by the University for career growth of teaching staff to be very good; the degree of academic freedom of teaching staff does not exceed 68%.

Analyzing the EP on the content of the standard "Teaching staff" in accredited areas, the commission notes:

### **Strengths/best practice on EP 6B01509 - "Chemistry-Biology", 6B01512 - "Geography-History":**

- According to this standard, EP has no strengths.

### **Recommendations of the EKPO EP 6B01509 - "Chemistry-Biology", 6B01512 - "Geography-History":**

- The university management should analyze the compliance of the teacher's qualifications and the disciplines taught (For example, Physical and colloidal chemistry (the fundamental discipline is taught by a master), Chemical Technology (teaches PhD)) and develop a professional retraining program current teachers or attracting leading national and/or foreign teaching staff (01.01.2024);

- Consider the possibility of inclusion in the working groups for the implementation of



grant and initiative, both domestic and international, programs/projects of students, undergraduates (01.01.2024);

- To revise the plan of internal and external academic mobility of the PPSs by highlighting measurable indicators of its effectiveness (01.09.2024);

- To create conditions for attracting foreign and domestic teachers in the implementation of the EP to increase the share of participation of teaching staff in academic mobility programs, internships in universities of the near and far abroad (01.09.2024).

### **Conclusions of the EXC by criteria**

According to the "Teaching staff" standard, accredited students have 7 - satisfactory, 3 – suggests improvements.

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

- ✓ *OO must guarantee a sufficient number of educational resources and student support services to ensure the achievement of the goal of the EP.*
- ✓ *The PA must demonstrate the sufficiency of material and technical resources and infrastructure, taking into account the needs of various groups of students in the context of the EP (adults, employed, foreign students, as well as students with disabilities).*
- ✓ *The management of the EP must demonstrate the existence of procedures for supporting various groups of students, including information and counseling.*
- ✓ *The management of the EP must demonstrate the compliance of information resources with the specifics of the EP, including:*
  - *technological support for students and teaching staff (eg online learning, modeling, databases, data analysis programs);*
  - *library resources, including a fund of educational, methodical and scientific literature on general education, basic and major disciplines on paper and electronic media, periodicals, access to scientific databases;*
  - *examination of the results of research, final works, dissertations for plagiarism;*
  - *access to educational Internet resources;*
  - *functioning of WI-FI on the territory of the organization of education.*
  - *OO demonstrates the planning of providing the EP with educational equipment and software similar to those used in the relevant sectors of the economy.*

### **The evidentiary part**

The infrastructure and material and technical base at Shakarim University are represented by administrative, educational and laboratory buildings, auxiliary premises and student houses for students and staff, has modern resources, provides the conditions necessary for the provision of high-quality educational services.

The University, as the owner, has facilities for various purposes with a total area of 55392.5 sq.m., the educational process is carried out in 9 educational and laboratory and educational and sports buildings with a total area of 25175.4 sq. m

. When training specialists in EP 5B012500/6B01509 - Chemistry-Biology, both specially equipped laboratories and general-purpose classrooms are used. In 2022, the University acquired specialized chemistry and biology classrooms.

OP 5B012900/ 6B01512 – "Geography-History" is provided with classrooms that meet all safety requirements during operation.

The Department of Natural Sciences has 18 classrooms for conducting all types of classroom classes (lectures, practical and laboratory). In addition, there are computers, 5 interactive whiteboards, 2 interactive panels in classrooms and laboratories. Laboratory passports have been approved.

The equipment, devices, visual aids, exhibits, materials used in laboratories contribute to ensuring the proper level of quality of the educational process. Every year, the department submits applications for the purchase of laboratory equipment, materials, reagents, office equipment, etc. The educational and laboratory buildings of the university are equipped with

classroom facilities, computer classes, modern equipment, comply with current sanitary standards, fire safety requirements, qualification requirements for the activities of educational organizations.

The University supports the participation of student-athletes in international, republican, regional sports competitions.

The University library makes a significant contribution to the training of qualified specialists, provides the necessary literature for educational and scientific processes, and contributes to the further development of science.

The structure of the library includes educational and scientific subscriptions, electronic and reading rooms.

#### Library structure

The total area of the library, sq. m.	1840,4
The area of the book depository sq. m.	987,6
Total number of reading and scientific halls	6
Total number of seats in the reading rooms	288
Subscriptions	6
Number of library computers, pcs. (for users)	37
Number of computers with access to the Internet, pcs.	37

The library fund is 842,990 copies. books, in the state language – 398815 copies.

Of these:

- scientific fund – 132,780 copies, including state. language – 31,609 copies,
- educational literature – 494037 copies, on the state. language – 278883 copies ..,
- fiction – 66492 copies, on the state. - 25118 copies,
- other literature (encyclopedias, dictionaries, reference books, etc.) – 149681 copies, in

the state language – 55205 copies.)

In 2022, only 104 titles of periodicals were issued: 9 of them were titles of newspapers of the Republic of Kazakhstan and 95 titles of magazines (80 – of the Republic of Kazakhstan, 15 – of the Russian Federation). The fund on electronic and magnetic media is 6522 copies, including 1927 copies in the Kazakh language.

Information about the library resources of the university in the context of accredited OP

№	educational program	General Fund	Textbooks and study guides	Scientific and methodological literature	Digital media
1	6B01512 - "Geography-History"	8425	6747	1678	265
2	6B01509 "Chemistry-Biology"	10359	8482	1877	314

In October of this year, Kazakhstan's automated Library and Information System KABIS was successfully converted and the Scientific Library was transferred to the IRBIS 64+ SUB program, which is a typical integrated solution for the automation of library technologies.

In 2023, it is planned to purchase the Web-IRBIS module for the purpose of feedback between the employee of the scientific library and the reader (student).

Within the framework of the electronic library, access to the resources of the Kazakhstan National Electronic Library (KazNEB), the Republican Interuniversity Electronic Library (RMEB), electronic information resources SpringerLink, "Ssoris", ScienceDirect, e-LIBRARY, the information system "Paragraph", "Adebiet portals", "Epigraph", "KazNUread" (test access to

EBS KazNUim.Al-Farabi), Okulyk.kz (school textbooks). To help scientists, undergraduates and university students find the necessary information, the library issues newsletters of new arrivals, subscription publications, a Calendar of Significant dates, and virtual book exhibitions.

The educational process involves 20 computer classes equipped with modern computer technology and connected to the Internet, a language lab, 64 classrooms equipped with interactive whiteboards, and 46 classrooms equipped with other technical means of teaching.

Currently, the corporate information and educational network of the university is provided with broadband Internet access with a bandwidth of up to 500 Mbit/s and 100 Mbit, the provider of Kazakhtelecom JSC.

PolyCom conference system is used for online conferences, lectures, seminars with the participation of leading scientists of Kazakhstan, near and far abroad.

The university has an IP telephony system that provides communication between deans, departments and structural divisions of the university (only the rector's office and some structural divisions).

A telecommunications node is functioning:

- public server (WWW, DNS, Mail, DHCP, PROXY, Firewall) – IntelXeon 2xE5606,4x4GBRDIMM;

- application and database server,–Intel(R) Xeon(R) CPU E5-2676 v3 @ 2.40GHz;

- Distance Learning Technology Server– Intel(R) Xeon(R) CPU E5620 @ 2.40GHz;

- backup storage server–IntelXeon (2xCPU–1600 MHz, RAM 4048 Mb).

Students living in university dormitories are given the opportunity to work in computer classes connected to the Internet.

The University also provides nonresident students with living conditions in a dormitory. Accommodation in the hostel is carried out in accordance with the Rules of residence in the hostel, in compliance with established sanitary standards.

779 students live in 4 dormitories belonging to the university, including 21 students of EP 6B01509 – "Chemistry-Biology", 6 students of EP 6B01512 – "Geography-History".

Depending on the social status of students, activity in social work, study and science, 75 university students (of which two students of accredited OP: 6B01509- "Chemistry-Biology" (Temirkhan D., KHB-101), 6B01512 "Geography-History" (Zhumasheva B., GI-101) were given different levels discounts on tuition fees.

The university has created conditions for people with disabilities, ramps are installed at the entrance to the academic buildings, special markings are provided for people with poor eyesight, elevators work in academic buildings and dormitories. In the adjacent territories of educational buildings, parking lots are allocated for people with limited mobility, with the installation of road signs.

### **Analytical part**

The VEC confirms the availability of student support systems, including support through the university's website, during a visual inspection of the facilities of the material base, the members of the expert commission made sure that, in general, the provision of the educational process of accredited students has the necessary conditions for educational and material assets.

However, separately, according to the implemented cluster options and the results of the analysis in the context of the standard "Educational resources and student support systems", the commission concluded that the university lacks proper equipment, in particular laboratory facilities, classroom fund, providing stationary multimedia equipment, as well as professional, innovative programs Gaussian, Origin, GIS digital center, etc.

The department lacks modern measuring instruments for laboratory work under the educational program 6B01509-Chemistry-Biology.

The expert commission recommends the management of the university to increase the share of the classroom fund, laboratories and other facilities equipped with modern equipment

and ensuring the achievement of the goals of the EP

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

**Strengths/best practice on EP 6B01509 - "Chemistry-Biology", 6B01512 - "Geography-History":**

- According to this standard, EP has no strengths.

**VEC recommendations on EP 6B01509 - "Chemistry-Biology", 6B01512 - "Geography-History":**

- To analyze the categories of students in order to highlight the features of each of them.

Based on the results of the analysis, to develop a mechanism for building individual educational trajectories taking into account their individual needs (Deadline: September 2024).

Additional recommendations of the VEC on EP 6B01512 - "Geography-History":

- Draw up a long-term plan to increase the share of the classroom fund equipped with stationary multimedia equipment, as well as professional, innovative programs (for example, Gaussian, Origin, GIS digital center) (Deadline: April 2024);

Additional recommendations of the VEC on EP 6B01509 - "Chemistry-Biology":

- To make a long-term plan for equipping the laboratories of the department with modern measuring instruments for laboratory work (Deadline: 01.09.2024);

#### **Conclusions of the VEC by criteria**

According to the standard "Educational resources and Student Support systems", accredited EP have 11 satisfactory positions, 2 suggest improvements.

### 6.9 Standard "Informing the public"

- ✓ *The PA must publish reliable, objective, up-to-date information about the educational program and its specifics, which should include:*
  - *expected learning outcomes of the implemented educational program;*
  - *qualifications and (or) qualifications that will be awarded upon completion of the educational program;*
  - *approaches to teaching, learning, as well as the system (procedures, methods and forms) of assessment;*
  - *information about passing scores and learning opportunities provided to students;*
  - *information about employment opportunities for graduates.*
- ✓ *The management of the EP should provide for a variety of ways to disseminate information, including the media, information networks to inform the general public and interested parties.*
- ✓ *Informing the public should include support and explanation of the national development programs of the country and the system of higher and postgraduate education.*
- ✓ *OO must demonstrate the reflection on the web resource of information that characterizes it as a whole and in the context of educational programs.*
- ✓ *An important factor is the availability of adequate and objective information about the teaching staff of the EP.*
- ✓ *An important factor is informing the public about cooperation and interaction with partners within the EP.*

#### **The evidentiary part**

Information about the activities of the University and the implementation of the EP is available on the official website of the University <https://shakarim.edu.kz/>. Information about the department and the implemented EP "6B01509/5B012500 Chemistry-Biology", "6B01512/5B012900 Geography-History" can also be obtained on the university's website.

The university publishes the journal "Bulletin of Shakarim University" and the newspaper "Shakarimshanyragy" on a periodic basis. Scientific publications of the university play an important role in the development of the information environment in the system of vocational

education. They are a way of developing the intellectual culture of all participants in the communication process in higher education. The University strives to become a unique multidisciplinary university with an established brand that uses the latest technologies in science and education, as well as a university recognized in Central Asia due to the quality of education and research, international relations and close cooperation with business communities. Within the framework of the strategic guidelines and values of the university, parallels and correlation of goals and tactical actions are traced in the activities of the department as the main structural unit of the university.

Shakarim University implements a quality assurance policy, which is reflected in the regulatory document "Policy and standards of the internal quality assurance system", complies with the legislation of the Republic of Kazakhstan in the field of education and is freely available to all stakeholders.

The quality assurance policy at the EP level is focused on the development of a quality culture in which all internal stakeholders assume responsibility for quality at all levels of the university's functioning. Information and links to external resources based on the results of external evaluation procedures are available on the website of Shakarim University.

The analysis of the external environment shows that the university has a long-standing and stable positive image, which is confirmed by detailed information about the university on various websites.

The University defines social media accounts as important tools for informing the public and building a dialogue with it. Among them, the main ones are: Facebook Instagram account, with updated information. There is also an Instagram of the faculty and department.

Information about admission, training, cooperation, scientific activity is located in different subsections of the university's general website. In the "Incoming" section. On the university's website there are subsections "Preface", "Admissions Committee", "List of educational programs", where there is information about the faculty, about three-level education, about educational programs in technical and vocational education, according to which enrollment is carried out on the basis of full-time, abbreviated and full-time DOT, grants.

In the subsection "Career guidance" there is a list of necessary documents, in the subsections "Bachelor's degree", "Postgraduate education" in each of which a list of EP with the rules of admission is attached. "Creative exams" - a list of specialties in which it is necessary to pass a creative exam, "Special exam", "Regulations on grants and benefits" and "Virtual Admission Committee" contains all the information on subsections.

In the "Students" section there are subsections "Student Service Center", "Vacant grants", "Presidential Scholarship" and "Alumni Gallery", which contains complete information about the rules of admission and receipt of documents, and about graduates.

The university's website has a Student's Guide for students, where you can learn about the university, mission, algorithm, rules of the educational process, exams, etc.

In the section "Academic mobility" there is a provision on internal academic mobility and lists of partner universities. Here you can see the resume of a graduate student. In the "Faculties" section there are sub-sites where information about the faculty and the department serving accredited educational programs is given, with a description of general information, the mission of the faculty.

In the section "International cooperation" there are subsections "Academic mobility", "Dual degree programs", "International students", "Center for International Cooperation" and "International Projects", which contains complete information about the rules for accepting documents, about the passage of open days, about the features of admission of foreign citizens, information about programs and projects. On the website there is information about the scientific activities of the university in the "Science" section.

Information about graduate employment opportunities is available on the University's website in the section "Employers", in the subsection "Resume".

The site periodically updates information about available job vacancies, the employment of university graduates in the context of each program, their employment opportunities, outstanding graduates, events promoting employment, career day.

Periodically, the University organizes meetings of graduates with employers within the framework of field seminars, round tables, rectorates. Information about the events is posted on the university's websites.

Open days are held at the university and at the faculty, which is also notified through the website of the university and faculty. The University, through the Career and Employment Department, sends official letters to city and regional schools to participate in subject Olympiads. As part of the career guidance work, the teaching staff of the department serving accredited EP take part in exhibitions and conferences held in secondary general education and secondary specialized educational institutions.

Within the framework of the "UNIVERSITY-School" program, Shakarim University organizes career guidance work in the cities and districts of "Shakarim Kerueni", where master classes, trainings and open practical classes with teachers and students of schools are held.

Informing the public by the university also provides for the support and explanation of the national development programs of the country and the system of higher and postgraduate education, carried out through the participation of university staff in forums of various levels, actions, round tables, etc.

On the main page of the University's website there is a permanent column "News" Students, graduates of the university are active users of social networks and express gratitude to the University staff. During the academic year, the media center, together with the career guidance department and the admissions committee, places advertising material for applicants on the pages of regional and republican media.

All important events held by the University are reflected in the news feed, as well as in presentations on large-format monitors located at the University.

The University's website also has a section "Youth Policy", which contains all information about the hostel, the intellectual center "Shakarim Zhastary", the student parliament, the small dean's office, student organizations and the TOP100 magazine.

The system has a centralized database that reflects all the real events and processes of the university. All processes of the Registrar's Office are carried out through the personal account of the Registrar's Office staff, teaching staff and the student on the portal [ais.semgu.kz](http://ais.semgu.kz). A "personal account" (web page) is provided for each student and employee, which allows the university staff to automate their main tasks, students to see the necessary information, and remote students to instantly access their courses and knowledge control, communicate directly with the teacher in real time.

To inform the teaching staff, structural units and students of the university, there is a system designed for internal document management. The system is designed for electronic signatures of syllabuses, IUP, bypass sheets, student statements, report notes, etc. For structural divisions, the Smart.semgu system has been created, where there is information about students.

Distance learning technologies (DOT) have been introduced at the university. The organization of communication support of the educational process on DOT is carried out through the educational portal AisSemgu. The system is accessible via login and password for teaching staff and students.

The department has student scientific circles "Chemical Society", "Atazhurt". In order to form a student contingent at the department, a plan of the department for career guidance is drawn up annually at the beginning of the academic year. Additional on-line chemistry classes, control sections, work with tests, preparation for Olympiads of various levels were conducted free of charge for students of secondary schools, including grades 11, teaching staff of departments.

The departments have reissued booklets for schoolchildren and school graduates on EP information about the department and EP is posted on the university's website.

Awareness about the periodic updating of the catalog and elective disciplines, about the development plan of the EP is systematically covered in republican printed publications (the newspaper "Bilimdi el-Educated country", the magazine "Ustaz", "Modern Education", etc.); the regional newspaper "Semey Tany"; television on the channel "Eurasia"; radio - "Radio 7". The feedback of the university management with the public is carried out with the help of a functioning rector's blog.

Information about the auditing of financial statements is posted on the university's website for the general public and interested persons.

The university administration, faculty and departments pay sufficient attention to informing the public about the activities, conditions and features of the implementation of the EP using various media resources and publications for newspapers, magazines, radio and television. To inform the public, as well as applicants, information boards, posters, banners are placed in the foyer of the departments. To conduct recruiting activities in secondary educational schools in cities and regions of Kazakhstan, presentations and videos containing information about the EP have been developed.

### ***Analytical part***

The VEC confirms the availability of information resources: booklets, newspapers, as well as social networks. Information about the results of the university's activities is reflected in three languages on the official website of the university.

Teaching staff regularly appear on television and radio, participate in the life of the region. The analysis of information on the university provided in the media showed a sufficient level of public awareness. In general, after some oral recommendations, the management and the department accredited by the EP supplemented the content on current issues.

Nevertheless, the expert commission found that in the context of accredited EP information about the publications of the teaching staff is not sufficiently complete on open resources, in the context of personalities, also some data on the website, for accredited EP translated into English, remain in Russian or Kazakh interpretation.

In order to increase competitiveness, sense and awareness of responsibility for informing the public about the educational programs implemented at the university, consider the possibility of providing access to information to all structural units for self-filling content on the university's website on accreted EP

To consider the possibility of filling out the content of the teaching staff of the department correctly, since many teachers at the time of the audit lacked either data on advanced training or scientific publications in recent years, some teaching staff lacked full regalia, a scientific degree, and data of teachers teaching in the discipline "physics" were at the Department of natural Sciences, whereas they should be at the Department of Physical and Mathematical Sciences and Computer Science, etc.

The survey of students conducted during the visit of the VEC NAAR showed that 89.6% of respondents were completely satisfied with the information support and explanation of the admission rules and the strategy of the educational program before entering the university. In addition, 90% of the surveyed students are fully satisfied with informing students about courses, educational programs and the academic degree they receive.

Analyzing the EP on the content of the standard "Informing the public" in accredited areas, the commission notes:

**Strengths/best practice on EP 6B01509 - "Chemistry-Biology", 6B01512 - "Geography-History":**

- According to this standard, EP has no strengths.

**VEC recommendations on EP 6B01509 - "Chemistry-Biology", 6B01512 - "Geography-History":**

- To develop a procedure for posting and timely updating of complete and reliable information on open resources about PPS, in the context of personalities (01.09.2023).

**Conclusions of the WEC according to the criteria:**

According to the Standard "Informing the public", accredited educational programs have 11 satisfactory positions, 1 - suggests improvement.





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

**Strengths/best practice on EP 6B01509 - "Chemistry-Biology", 6B01512 - "Geography-History":**

**The standard "Educational Program Management"**

- The organization of education as a whole demonstrates commitment to a culture of quality and mature culture at all levels of activity: including top management, teaching staff and students

**Information Management and Reporting Standard**

- The university has a unique system for collecting, analyzing and managing information based on modern information and communication technologies and software.

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

- According to this standard, EP has no strengths.

**The standard "Continuous monitoring and periodic evaluation of educational programs"**

- According to this standard, EP has no strengths.

**The standard "Student-centered learning, teaching and assessment of academic performance"**

- According to this standard, EP has no strengths.

**The "Students" standard**

- According to this standard, EP has no strengths.

**Standard "Teaching staff"**

- According to this standard, EP has no strengths.

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

- According to this standard, EP has no strengths.

**The standard "Informing the public"**

- According to this standard, EP has no strengths.

## (VIII) OVERVIEW RECOMMENDATIONS FOR QUALITY IMPROVEMENT

### *VEC recommendations on EP 6B01509 - "Chemistry-Biology", 6B01512 - "Geography-History":*

#### **Standard "Educational Program Management"**

- Develop an action plan to ensure mechanisms for analyzing the effectiveness of changes in order to identify and predict risks during the implementation of the EP (Deadline: 01.01.2024);
- The management of the EP to develop a procedure that ensures the real participation of stakeholders in the formation of the development plan of the EP (Deadline: September 2023);
- To carry out constant monitoring of compliance of educational program development plans with University development strategies (Deadline: September 2023).

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

- It is necessary to establish the frequency and responsibility for the presentation / updating of information on the websites of structural units (in particular: in the section science-seminars, webinars, conferences; section academic mobility, student achievements, etc.) (Deadline 01.09.2024).

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

- Analyze the content of accredited educational institutions and develop an action plan aimed at developing cooperation with Kazakh and foreign educational organizations (Deadline: 01.01.2024).

#### **Additional recommendations of the EKPO EP 6B01509 - "Chemistry-Biology":**

- To optimize the EP and consider the possibility of including the following courses in it: physics, geography, ecology, plant physiology, microbiology, molecular biology, physico-chemical research methods, theory and practice of educational work (Deadline: September 2023);
- Review the post-requirements of the basic and profile disciplines accredited by the EP in order to link them to specific disciplines (it is advisable to specify the names of the mastered disciplines in the post-requirements) (Deadline: September 2023);
- To analyze the title of the V module "Interdisciplinary and experimental activities" in accordance with the disciplines being read (Deadline: September 2023);
- Consider the need to find the disciplines "Forms and methods of organizing STEM education" and "Pedagogical experiment and experimental data processing" in module 5 (Deadline: September 2023);
- To analyze the content of the course "Physical and colloidal Chemistry" and consider the possibility of increasing its complexity in accordance with its components such as - Solution Theory, Chemical Thermodynamics, Chemical Kinetics, Electrochemistry, Navy Chemistry (Deadline: September 2023);

#### **Additional recommendations of the EKPO EP 6B01512 - "Geography-History":**

- Determine the list of courses, the content of which is aimed at the possibility of preparing students for professional certification in accordance with professional standards (Deadline: September 2024);

#### **The standard "Continuous monitoring and periodic evaluation of educational programs"**

- The management of the EP to develop a plan to systematize the risks of the development of the EP with an indication of the mechanisms for their reduction, in particular on the formation of the contingent and staffing (Term:01.01.2024);
- - To analyze EP in order to highlight their competitive advantages, with their further

inclusion in the development programs of EP and publication on the university's website (Deadline: September 2023);

- Develop a procedure for making changes and informing all interested parties about all planned or taken actions in relation to the EP (Deadline: 01.01.2024).

### **The standard "Student-centered learning, teaching and assessment of academic performance"**

- The management of the EP to develop a plan for annual monitoring of the applied methods of teaching specialized disciplines in order to improve the quality of teaching (Term: permanent).

- To include issues of the effectiveness of the introduction of new teaching methods in the meeting plan of the department or methodological seminars of the department/faculty (Deadline: 01.09.2023)

- Annually post information on the results of their own research in the field of teaching methods of academic disciplines and post on the university's website (Deadline: 01.01.2024);

- Develop a plan for the development of internal and external academic mobility among students with the definition of measurable targets (Deadline: September 2024).

### **The "Students" standard**

- Develop an action plan to assist in obtaining external grants for training and attracting students to participate in the program of international educational and scholarship programs (Deadline: 01.09.2024).

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

- The management of the university to analyze the compliance of the teacher's qualifications and the disciplines taught (For example, Physical and colloidal chemistry (the fundamental discipline is taught by a master), Chemical technology (teaches PhD)) and develop a program of professional retraining of existing teachers or attracting leading national and/or foreign teaching staff (01.01.2024);

- Consider the possibility of inclusion in the working groups for the implementation of grant and initiative, both domestic and international, programs/projects of students, undergraduates (01.01.2024);

- To revise the plan of internal and external academic mobility of teaching staff with the allocation of measurable indicators of its effectiveness (01.09.2024);

- To create conditions for attracting foreign and domestic teachers in the implementation of the EP to increase the share of participation of teaching staff in academic mobility programs, internships in universities of the near and far abroad (01.09.2024).

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

- To analyze the categories of students in order to highlight the features of each of them. Based on the results of the analysis, to develop a mechanism for building individual educational trajectories taking into account their individual needs (Deadline: September 2024).

### **Additional recommendations of the VEC on EP 6B01512 - "Geography-History":**

- Draw up a long-term plan to increase the share of the classroom fund equipped with stationary multimedia equipment, as well as professional, innovative programs (for example, Gaussian, Origin, GIS digital center) (Deadline: April 2024);

### **Additional recommendations of the VEC on EP 6B01509 - "Chemistry-Biology":**

- To make a long-term plan for equipping the laboratories of the department with modern measuring instruments for laboratory work (Deadline: 01.09.2024);

**The standard "Informing the public"**

- To develop a procedure for posting and timely updating of complete and reliable information on open resources about PPS, in the context of personalities (01.09.2023).



**(IX) OVERVIEW RECOMMENDATIONS FOR THE DEVELOPMENT OF THE ORGANIZATION OF EDUCATION**

During the visit, the members of the external expert commission did not form recommendations for the development of the organization of education that go beyond compliance with the standards of the NAAR.



**(X) RECOMMENDATION TO THE ACCREDITATION COUNCIL**

The external expert commission made a unanimous decision to recommend to the Accreditation Council to accredit the educational programs OP 6B01512 - "Geography-History", OP 6B01509-"Chemistry-Biology", implemented at the Shakarim University of Semey NJSC for a period of 3 years.

