



«АККРЕДИТТЕУ ЖӘНЕ РЕЙТИНГТИҢ
ТӘУЕЛСІЗ АГЕНТТІГІ» КЕМ

НУ «НЕЗАВИСИМОЕ АГЕНТСТВО
АККРЕДИТАЦИИ И РЕЙТИНГА»

INDEPENDENT AGENCY FOR
ACCREDITATION AND RATING

*Addressed
Accreditation
the Council of the IAAR*

REPORT

on the results of the external expert assessment Commission for compliance with the requirements of the standards of specialised accreditation of educational programmes 5B011100 /6B01501- «Informatics», 5B070300 /6B06102-«Information system», 6M011100 /7M01501 - «Informatics», 6M060200/7M06101 - «Informatics» RSE on REM “Sarsen Amanzholov East Kazakhstan state University”

from « 04 » to « 06 » June 2020

Ust-Kamenogorsk

« 06 » June 2020

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External expert Commission

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(I) LIST OF DESIGNATIONS AND ABBREVIATIONS

NAAR/IAAR	Independent Agency for Accreditation and Rating
EKSU	RSE on REM«East Kazakhstan State University named after Sarsen Amanzholov»
MESRK	Ministry of Education and Science of the Republic of Kazakhstan
EEC	External expert commission HAAP/IAAR
BD	Basic disciplines
FQW	Final qualifying work
IRD	Internal regulatory documents
HE	Higher education
EEEA	External evaluation of educational achievements
SAC	State attestation commission
SMSERK	State mandatory standard of education of the Republic of Kazakhstan
UNT	Unified national test
ITWP	Individual teacher's work plan
IOS	International organisation for standardisation
IC	Individual curriculum
CCED	Catalog of compulsory and elective disciplines
CTT	Credit training technology
MEP	Modular educational program
SRW	Scientific-research work
SRWS	Scientific-research work of the student
НИРМ	Research work of a master student
NFQ	The national framework of qualifications
NQS	National qualifications system
GES	General education subjects
EP	Educational programme
SD	Specialized disciplines
TS	Teaching staff
RK	Republic of Kazakhstan
RSO	Republican subject Olympiad
WC	Working curriculum
QMS	Quality management system
IWS	Independent work of a student
IWST	Independent work of a student with a teacher
IWS	Independent work of students
IWST	Independent work of students with a teacher
TC	Typical curriculum
EMCD	Educational and methodical complex of the discipline
EMCS	Educational-methodical complex of specialties
EMW	Educational and methodical work
SSC	Student Service Center

(II) INTRODUCTION

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

The report of the external expert Commission (ECC) contains an assessment of the compliance of EKSU activities within the framework of specialized accreditation of educational programs «5B011100/6B01501 – Informatics», «5B070300/6B06102-Information systems», «6M011100/7M01501 – Informatics», «6M060200/7M06101 – Informatics» with the NAAR criteria, recommendations of the ECC for further improvement of the parameters of the specialized profile.

EEC composition:

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

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

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

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

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

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

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

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

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

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

(III) REPRESENTATION OF THE EDUCATIONAL ORGANISATION

The Republican state enterprise on the right of economic management "Sarsen Amanzholov East Kazakhstan state University" (hereinafter-EKSU) begins its history in 1952.In 1991, Ust-Kamenogorsk pedagogical Institute was transformed into East Kazakhstan state University and became the third University in Kazakhstan.In October 2003, by a decree Of the Government of the Republic of Kazakhstan, Sarsen Amanzholov was named after a scientist, linguist and Turkologist.

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

The University provides a wide range and high quality of educational services. The number of students enrolled at the University is 7,034. For working youth who study in a reduced form on the basis of Vet and higher education, since 2010, the educational process is organized with the use of RET. The training is conducted in the state, Russian and English languages. The University consists of 4 faculties, a higher College, and 8 research laboratories and centers. The University provides training in 54 bachelor's EP, 33 master's EP and 8 PhD EP in the following areas: «Education», «Natural Sciences», «Business», «Technical Sciences», «Services», «Law».

Since 2016, the Higher College of EKSU named after S. Amanzholov has been working in the structure of the University. Students are enrolled in the Higher College in 9 specialties and 13 qualifications, 2 of which are applied bachelor's degrees.

Implementation of the accredited EP 5B011100 /6B01501 - "Informatics", 5B070300 /6B06102 - "Information systems", 6M011100 /7M01501 – "Informatics", 6M060200 /7M06101 – "Informatics" is carried out at the Department of computer modeling and information technologies of the faculty of natural Sciences and technologies.

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

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

Education at the university is conducted in the state, Russian and English languages. The university has successfully passed institutional accreditation, accredited for a period of 5 years by IQAA (certificate IA-A No. 0104 dated May 27, 2019). Certificate validity: May 27, 2019 - May 24, 2024

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

EKSU showed good performance in the National rating in 2020 held by the Independent Agency for Accreditation and Rating:

- 1) General rating of RK universities - 7th place;
- 2) Institutional ranking of universities in the areas of undergraduate educational programs:
 - pedagogical sciences - 9th place;
 - social sciences, journalism and information - 6th place;
 - natural sciences, mathematics and statistics - 7th place;
- 3) Institutional ranking of universities in the areas of educational master's programs:
 - pedagogical sciences - 7th place;
 - arts and humanities - 8th place;
 - social sciences, journalism and information - 7th place;
 - natural sciences, mathematics and statistics - 5th place;
 - information and communication technologies - 9th place.

It should be noted that in the rating for groups of EP in accordance with the levels and directions of training specialists in the master's program "M012 – training of computer science teachers (Kazakh, Russian, English)" took 1st place.

Educational activities of the University are carried out on the basis of The law On education Of the Republic of Kazakhstan dated July 27, 2007, perpetual license (No. 12020617) issued by the Committee for control in the field of education and science of the Ministry of education and science of the Republic of Kazakhstan on December 11, 2012 and regulated by the Charter of the University (No. 776 dated 14.08.2012, as amended. No. 345 of 25.03.2016, with changes. No. 751 of 15.07.2019), academic policy of EKSU, development Program of EKSU named after S. Amanzholov for 2018-2022.

In 2019, research funding was provided from the following sources:

- for grant financing - 133 966 690 tenge.;
- on economic contract projects - 10,000,000 tenge.;
- for international projects - 12 403 860 tenge.

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

(IV) DESCRIPTION OF THE EEC VISIT

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

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

In accordance with the requirements of the standards, the program of the visit covered meetings with vice-rectors, heads of structural divisions, deans, heads of university departments, teachers, students, alumni, employers and employees from structural divisions, interviews and questionnaires of teachers and students in connection with quarantine measures were carried out online via videoconference. A total of 137 people took part in the meetings (Table 1).

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

Participant category	Quantity
RECTOR	1
Pro-rector's building	2
Heads of structural divisions	22
Deans	1
Heads of departments	4
Teachers	24
Students, undergraduates	63
Graduates	10
Employers	10
Total	137

A visual inspection was carried out in order to get a general idea of the organization of educational, scientific and methodological processes, material and technical base, to determine its compliance with standards, as well as to get an idea of the workplaces of teaching staff, employees and students. The experts examined the Faculty of Natural Sciences and Technology and its four departments: (Department of Computer Modeling and Information Technologies; Department of Chemistry; Department of Biology; Department of Physics), as well as structural units. We visited the Educational building No. 1 (Scientific library, research hall for teaching staff and undergraduates, The Fund of rare books, Electronic reading room, Museum of archeology and cultural heritage of Altai, IT-chemistry room named after Professor A. S. Akhmetov, Educational laboratory of general chemistry named after the initiator and first rector of EKSU, Doctor of Chemical Sciences, Academician of the National Academy of Sciences of the Republic of Kazakhstan E. Mambetkaziev, Laboratory of Phytochemistry, Chemical analysis laboratory, Laboratory of physical and chemical research, pharmaceutical and Toxicological

chemistry, Laboratory of analytical chemistry, gym, House of students No. 4,5, Trunov fitness center), Academic building No. 8 (National laboratory for collective use), academic building 7 (SIC "surface Engineering and tribology", computer classes (auditoriums 214,214A, 211A), Training laboratory "Robolab»etc.

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

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

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

Members of the EEC visited the base practices of accredited programs: KSU "Uchebno-production combine" akimat Ust-Kamenogorsk, Branch of RSE "integro at VKO"; LLP "pilot farm of olive cultures"; LLP respectively your.

All conditions were created for the work of the EEC, access to all necessary information resources was organized. The staff of EKSU named after S. Amanzholov ensured the presence of all persons indicated in the program of the visit, observing the set time.

Within the framework of the planned program, recommendations for improving the accredited educational programs of the East Kazakhstan State University. S. Amanzholova, developed by the EEC based on the results of the examination, were presented at a meeting with the management on June 6, 2020.

EEC members attended exams on EP 5V011100 / 6V01501-Informatics:

- Thesis defense, 04.06.2020, 9.00 am (online zoom), 10 students attended.
- Thesis defense, 05.06.2020, 9.00 am (online zoom), 5 students attended.

(V) DESCRIPTION OF THE PREVIOUS ACCREDITATION PROCEDURE

Educational programs 5B011100 / 6B01501 – «Informatics», 5B070300 / 6B06102 – «Information Systems», 6M011100 / 7M01501 – «Informatics», 6M060200 / 7M06101 – «Informatics» were not previously accredited by NAAR / IAAR.

(VI) COMPLIANCE WITH SPECIALISED ACCREDITATION STANDARDS

6.1. Standard «Management of the educational programme»

Evidence part

EEC members note that the University has developed an Academic policy.

It is presented as a system of measures, rules and procedures for planning and managing educational activities and effective organization of the educational process https://www.vkgu.kz/sites/default/files/files/education/akadem_sovet/Akadem_polit.pdf

The official website of the University publishes the goals <https://www.vkgu.kz/ru/page/ce-li-v-oblasti-kachestva.html> and policy <https://www.vkgu.kz/ru/page/politika-v-oblasti-kachestva.html> in the field of quality, mission and vision <https://www.vkgu.kz/ru/page/missiya-i-videnie.html>. The mission of the University is to ensure its leading role in the international scientific and educational space for the formation of competitive specialists for the innovative Development of Kazakhstan.

EEC confirms the existence of the Development Program of S. Amanzholov EKSU for 2018-2022 https://www.vkgu.kz/sites/default/files/files/o_nas/progr_VKGU_2019.pdf, which was approved at the meeting of the Academic Council on October 3, 2018. The program is aimed at achieving a high level of Development by implementing the goals and objectives set by

the President of the Republic of Kazakhstan in the framework of higher education Development. Further Development of the University, according to the Program, will take place in the direction of regionalization of the content of the EP, which, in turn, provides knowledge of the needs of the region and the corresponding adaptation of the educational process to prepare competitive graduates.

The members of the EEC were convinced that there is a Development of a culture of quality assurance, including in the context of EP. This is confirmed, for example, by taking into account the needs of modern society for highly qualified and competitive personnel, which, in turn, affected the organizational structure of the University and its activities. As a result, the University has modernized its management system and implemented the principles of corporate management. In the course of Development, the University has created a Supervisory Board, an Academic Council, increased the effectiveness of the Academic Council, student self-government bodies and the alumni Association, and increased the interest of employers. A system of strategic planning has been introduced, and work has begun on the transition to University autonomy. The «Teacher's code of honor», «Student's code of honor», and rules of academic integrity have been developed and approved. The annual monitoring of satisfaction with the University's management system among employees and teaching staff makes it possible to improve the corporate governance system. The quality of educational services is assessed by conducting a survey among students «Students' satisfaction with the quality of educational services» and employers «Employers' satisfaction with the quality of graduates».

The experts noted that the quality management system ensures coordination of tasks related to the quality of training and increasing satisfaction of students' needs. The University has developed and Operates a system of internal regulatory documents. The information is publicly available <https://www.vkgu.kz/ru/page/polozeniya-lokalnye-normativnye-dokumenty-universiteta.html>. Any interested person can read the rules and regulations developed at the University. For example, «Regulations on the Development of modular educational programs» (28.12.2018), «Regulations on the Academic Council of S. Amanzholov EKSU» (P EKSU 045-19-on the Academic Council No. 56 of 01.10.2019), etc. Changes in the regulatory legal acts of the Republic of Kazakhstan are reflected in the internal regulatory documents of the University by making changes and amendments.

The effectiveness of the internal quality assessment and review mechanism is confirmed. Information on the goals and tasks as the EP posted in the print media include brochures, are published in mass media (hereinafter – mass media) national, regional and local importance, in social networks and on the official website of the University.

The EEC confirms that the University is working to integrate research, teaching and learning. As a result of research work (hereinafter referred to as SRW) of the teaching staff (hereinafter referred to as faculty), new disciplines were introduced in EP 2020. For example, in EP 5B011100 /6B01501 – «Computer science» - «Interactive learning services»; «STEM approach in education»; «Digital literacy of a teacher»; «Electronic portfolio of a teacher»; in EP 5B070300 /6B06102 – «Information systems» – «Robotics and artificial intelligence»; «Programming of robot control»; «Risk Management and standards in IT»; «Mobile application Development»; «Virtualization and cloud technologies», in EP 6M011100 /7M01501 – «Computer Science» – «Cloud computing technologies in e-learning»; «Structure and practice of SWOT analysis», in EP 6M060200/7M06101 – «Computer science» «Cloud computing models», «Business analytics and big data».

The experts were convinced of the existence of internal regulatory documents regulating the process of developing the EP, for example, «Regulations on the Development of modular educational programs» (28.12.2018), regulations of EKSU 003-18, «Regulations on the Development of the catalog of elective discipline» (03.01.2019), regulations of EKSU 001-19.

EEC members confirm that the existing Development Programs of EP 5B011100 /6B01501 – «Informatics», 5B070300 /6B06102 – «Information systems», 6M011100 /7M01501 – «Informatics», 6M060200 /7M06101 – «Informatics» for 2018-2021 were developed in

accordance with the Development Program of S. Amanzholov EKSU for 2018-2022, and approved at the meeting of the Council of the faculty of natural Sciences and technologies on 08.11.2018., Protocol №3. EP Development programs contain a mission, goals and objectives, a detailed description of strategic Development directions (academic, research, innovation, etc.), an analysis of the current situation, SWOT analysis, Development prospects, etc.

Experts note the dynamism of reviewing and updating the content of the EP, relations with employers who participate in determining the list of modules of choice for the educational program, taking into account modern requirements, in providing databases of practices and in the final assessment of graduates.

Development programs contain information about the uniqueness of the EP, as well as learning outcomes and emerging competencies. The uniqueness of the Development Program 5V011100 /6B01501 – «Computer science» in 2018-2021 years is the implementation of multilingual training of students, the introduction of elements of dual training, providing robotic equipment (for MES project for the 16 pedagogical universities of Kazakhstan) and the possibility of implementing the disciplines of programming in the context of the programmed robot control. Within the framework of this program, 3 levels of continuing education are implemented: bachelor's – master's-doctoral studies.

The object of professional activity of graduates of this EP is schools, lyceums, gymnasiums, colleges; research centers in the field of Informatization of education; state management bodies, departments of education; organizations of various forms of ownership that use training computer technologies in their work.

The uniqueness of EP 5B070300 /6B06102 – «Information systems» is that it is provided with a highly professional staff in the program profile (4 PhD doctors and 2 candidate of technical Sciences, two of them are winners of the Republican contest «Best University teacher», 2 specialists from production within the framework of dual training). EP provides practical training for students by participating in scientific research of the laboratory of digital technologies and modeling together with MLP «Asia AUTO».

The uniqueness of the EP 6M060200/7M0601-«Informatics» is determined by the scientific directions of research of teaching staff in the profile of EP, including models and methods of intellectual analysis, statistical processing of natural language, cryptology. Since the 2018-2019 academic year, this EP has been implementing a joint program of double-degree education with the Altai state University (Barnaul, Russia).

The uniqueness of the Development of EP 6M011100/7M01501 – «Informatics» is focused on the study of problems of monitoring students' progress using the developed innovative assessment tools (LMS tasks).

Information about the Development programs of the University, about making collegial decisions is brought to interested parties through the University's website, the newspaper «Image of EKSU», during meetings of the rector with students, interviews of the management in the media, on television, as well as by placing information on stands. The management of the EP systematically requests, analyzes and summarizes the Opinions of interested persons, conducts surveys, makes adjustments to the content of the EP, teaching methods, and improving the material and technical base.

The EEC confirms the existence of a mechanism for responding to identified problems on the part of collegial bodies, determining responsible persons and deadlines. Those responsible for the implementation of the points of the Development programs of the EP are appointed by the decision of the meeting of departments. Reports on the implementation of educational programs are included in the annual reports of departments with critical analysis.

Experts confirm the following mechanisms for the collection, storage and analysis of information on the implementation of the EP: EP self-assessment in preparation for accreditation; self-EP to meet the criteria of accreditation agencies; ongoing self-evaluation processes, ensuring the implementation of EP; questioning, etc.

Measures to control the quality of the educational process are recorded in the form of records, acts, certificates, reports, etc., and are discussed at meetings of departments and faculty Councils. Based on the analysis and evaluation of control indicators, preventive and corrective measures are developed. Interested persons have the Opportunity to make an appointment with the management of the EP according to the approved schedule.

Experts confirm that the University has an educational (www.euniver.vkgu.kz) and remote (www.edu.vkgu.kz) portals. The educational portal provides educational documentation for students. Catalog of elective subjects, educational methodological complex of the discipline in all disciplines are available both in paper version and on electronic media.

Students have access to the following resources on the library's website <http://library.vkgu.kz>: bibliographic descriptions of books, Republican interuniversity electronic library (RIEB); project of the Kazakhstan national electronic library (PKNEB-KazNEB), NNP RK; project of the National subscription for the use of resources of the international databases Scopus and Web of Science; RSCI. EB «Epigraph», NEB «Cyberleninka», EB «LAN», project «AbaiDigital», official statistical information on East Kazakhstan, Plenipotentiary directory, Scientific social networks, personal identifiers of scientists, citation databases, DOI, project «Rare Fund», project «Regional Bulletin of the East», project «Feed of new books».

EEC members confirm that the teaching staff of accredited universities conduct their own research in the field of natural language text processing and machine learning methods. So, the courses «Models and methods of intellectual analysis», «Development of a thesaurus of dictionaries using machine text analysis» are provided in the curriculum of EP 6M060200 /7M06101, «Distributed data systems», «Methods of data analysis» in EP 5B070300 /6B06102, and the disciplines «Business Analytics and big data» in EP 6M060200 /7M06101 are developed by teachers of the Department of computer modeling and information technologies, PhD Nugumanova A.B., Tlebaldinova A.S., Beldeubaeva Zh.T.

New disciplines «Cloud computing models», «Structure and practice of SWOT analysis» were included in the curriculum of EP 6M011100 /7M01501, «Virtualization and cloud technologies», «Digital literacy of the teacher» in the curriculum of EP 5B011100 /6B01501 on the Developments of scientific research of PhD doctor A.K. Sadvakasova.

The disciplines «Introduction of e-learning in high school», «Information and technical support for extracurricular activities», «Innovative technologies in teaching subjects of the natural and mathematical cycle in school» in EP 5B011100 /6B01501, «Software control and measurement tools for training», «Diagnostics in training using it» are provided in EP 6M011100 /7M01501 based on the results of their own methods for the updated content of education of c.p.n. Kubentayeva S., c.p.n. Kadyrova A. S. as part of the research work of the Department «Development of professionally-oriented electronic resources in the system of training it specialists based on a multilingual approach».

The equipment of the material and technical base allows to conduct the educational process of accredited EP of the discipline «Programmed robot control».

The experts also made sure that EP managers are trained in the framework of education management courses organized by both the MES and the University. For example, faculty members accredited EP: Tlebaldinova A.S., Zhantasova J.Zh., Kuantaeva S.N., Adikanova S., Kadyrova A.S. passed training courses in «Management in education» at the center for the proficiency testing of EKSUS. Amanzholov in the period from 26 February to 13 March 2019.

Analytical part

The quality assurance policy has been published, the relationship between research, teaching, and learning has been identified, and the evaluation system and main approaches to the Development of EP have been improved. In General, this confirms the existence and functioning of the quality assurance system, including in the context of EP. The work of the EP to ensure transparency of the Development plan of EP based on the analysis of its functioning, the actual positioning of the University and focus its activities to meet the needs of the state, employers, stakeholders and learners, experts believe satisfactory. The mechanism for updating strategic

documents on the Development of the EP has been developed. Employers who are representatives of the practice bases, graduates, students, and teaching staff are involved in the management of the EP. The EEC notes the consistency of the University's Development programs with national Development priorities and the University's Development Program for 2018-2022. The Commission was provided with evidence of a clear definition of those responsible for business processes within the EP, effective distribution of staff responsibilities, and differentiation of functions of collegial bodies. When preparing for the next external quality assurance procedure, the EP management takes into account the recommendations of the previous procedure.

The information and educational portal and the distance education portal are used for effective management of the educational system and the system for collecting and analyzing statistics on the number of students and graduates, information about available resources, and other activities.

The survey of teaching staff conducted during the visit to the naar showed that the reflection of the mission and strategy of the University in various aspects of the University's activities and organizational issues is estimated by the teaching staff to be very good-83.3%, good-16.7%. To the question «How well the content of the educational program meets Your needs», the teaching staff gave an assessment-very good-66.7%, good-33.3%. Involvement in the process of making managerial and strategic decisions is good-54.2%, very good-45.8%.

Strengths / Best practices

- availability of a published academic policy of the University, which presents a set of measures, rules and procedures for effective management of educational activities aimed at improving the quality of education;
- the process of developing a modular educational program involves the most interested participants in the educational process: employers, students, graduates, teachers, which is clearly regulated in the structure of the MEP;
- the existence of a mechanism for forming and regularly reviewing the EP Development plan, regulated by the Regulations on the project office, and the activities of project committees on EP ensure transparency and effective management of the life cycle of EP management;
- reflected in the goals and objectives of the EP the specifics of the training EP, focus on the needs of the labour market, the implementation of the strategic objectives of Development of higher and postgraduate education demonstrate the uniqueness of EP;
- the University ensures the participation of representatives of interested persons in the composition of the collegial management bodies of the University;
- the management has demonstrated the regularity and transparency of the procedures for managing and maintaining the EP at all stages of its implementation, which allows monitoring and improving results at any stage of the EP implementation;
- managers of accredited companies have been trained in management programs in education.

The recommendations of the EEC

For EP 5B011100/6B01501-«Informatics», 5B070300/6B06102-«Information systems», 6M011100 /7M01501-«Informatics», 6M060200 /7M06101-«Informatics»: a risk management policy should be developed taking into account all factors of the external and internal environment of the University.

Conduct an analysis of innovation management within the framework of accredited EP, including the introduction of innovative proposals.

Conclusions of the EEC on the criteria for the Standard «Management of the educational program» for EP 5B011100 /6B01501 –«Informatics», 5B070300 /6B06102 – «Information systems», 6M011100/7M01501 – «Informatics», 6M060200 /7M06101 – «Informatics»: strong – 7, satisfactory - 10.

6.2. Standard “Information Management and Reporting”.

Evidence part

Members of the external expert commission (EEC) confirm the existence of a system for collecting, analyzing and managing information. The systems for collecting, analyzing and managing information at S. Amanzholov EKSU are an integral part of the planning system, quality system, financial activities, process approach and management of individual educational programs. Maintaining the mission, goals and objectives and evaluating their effectiveness is carried out in accordance with the existing documented procedures, according to which the University collects and analyzes data to assess the performance of activities, determine the degree of implementation of the mission, goals and objectives, and Opportunities for continuous improvement of the service provided.

The visit of the External expert Commission showed that in all departments of the University, office work is conducted in accordance with the approved nomenclature of cases, documents are preserved and archived, and electronic document management is implemented through Microsoft Outlook.

In the process of collecting and processing information, the University uses modern information systems, information and communication technologies and software. The University's educational services are supported by 11 servers, among which the Proxy server, 1C server, mail server, Moodle server, DNS server, etc. are actively used. Wi-Fi is available in academic buildings and students' homes. The speed of Internet access in the educational building No. 7 is 120 MB / s, there are 6 WI-FI points with a speed of 15 MB/s. To provide a multi-level distributed IP architecture that allows Optimizing the business processes of the corporate information system, it is planned to purchase new servers.

An important point can be noted that the University has a "Student service center – Parasat" (SSC), which Operates on the principle of "one window" and provides students with appropriate services on administrative, educational and advisory issues, which facilitates electronic document management. The head of the human resources and legal support Department of the University showed actual documents confirming the consent of employees to the processing of personal data.

EKSU ensures transparency of information about educational quality audit processes and their results, as well as identifies the status of the results of measurement and analysis of processes. Records (minutes of meetings of the Department of computer modeling and information technologies, annual reports) established to provide evidence of compliance with the established requirements for the performance of the quality assurance system are available (published in the University's accounting documents, posted on the University's website) and are provided with identification features. A record management procedure has been established (identification, storage, protection, access, terms of use, location). The management of EKSU and collegial management bodies – the Academic Council, faculty Council, etc. make decisions based on facts, analysis of information from structural divisions, data obtained from questionnaires, monitoring of the educational process, and other sources.

The form of participation of faculty and students in management decision-making is, for example, participation in meetings of the rector's office, councils of faculties and departments. Faculty members and employees have the Opportunity to make suggestions for improving activities at meetings, meetings with the rector, Vice-rectors, and deans. Students participate in the planning and Development of educational programs through University-wide youth organizations, participation in collegial management bodies.

Participation of universities from far and near abroad in joint Development is provided for in the Development programs of educational programs. The Department of computer modeling and information technologies has signed an agreement with the Altai state University on cooperation in the Development of joint educational programs. At the meeting of the Academic Council (project Committee from 2019-2020 academic year) of the Department according to Protocol No. 3 of 14.01.2020. according to the recommendations of experts from the

MUNICIPAL STATE ENTERPRISE "Station of young technicians", East Kazakhstan scientific and methodological center for the Development of giftedness and additional education "Daryn", new disciplines were introduced in the catalog of elective disciplines (hereinafter - QED).

Assessment of the level of training of students is carried out by external experts in various areas: through reviewing graduation papers, evaluating the results of various types of practices, implementing research papers, etc. For the educational program 5B070300/6B06102– "Information systems" received reviews from the East Kazakhstan branch of the joint-stock company "Kazpost", the MUNICIPAL STATE-OWNED ENTERPRISE "Station of young technicians", the limited liability Partnership "EPhtalmological center" of Ust-Kamenogorsk, reviews of final works-the MUNICIPAL STATE-OWNED ENTERPRISE " Station of young technicians», Department of information technologies of branch of Joint-stock company national training center "Orleu" in the East Kazakhstan region rent of the Intellectual school of chemical and biological direction of Ust-Kamenogorsk; in 7M01501 /6M011100 – "Computer science" - reviews from the East-Kazakhstan branch of Joint-stock company "Kazpost", the East Kazakhstan scientific-methodical center of Development of talent and further education "Daryn" Eastern-Kazakhstan state University named after D. Serikbayev, from the Altai state University (Barnaul, Russia). The educational program 6B01501/5B011100 – "Informatics" received feedback from the Municipal state institution "Educational and production combine", Municipal state institution "school-lyceum No.3 named after sh. Ualikhanov", Municipal state institution "Secondary school No. 39", Municipal state institution "East Kazakhstan humanitarian College", Altai state University (Barnaul, Russia). Educational program 6M060200/7M06101 - "Informatics" received reviews from the East Kazakhstan scientific and methodological center for the Development of giftedness and additional education "Daryn", East Kazakhstan branch of the joint-stock company "Kazpost" in Ust-Kamenogorsk, Altai state University (Barnaul, Russia).

The information obtained from these sources of information is used annually in the analysis of the University management and the implementation of corrective actions, which affects the revision of plans for the Development of educational programs. On the basis of the information and software complex "automated information system of EKSU", students are provided with academic support for the entire period of study up to the graduation and the Supplement to the diploma in three languages: kazakh, russian and english.

The visit of an EEC confirmed that the EKSU scientific library has access to foreign databases Clarivate Analytics, SpringerLink, Sciepse, near abroad rolpred.com (free of charge), LAN (2019), to domestic databases with the Republican interuniversity electronic library. The official website is available in three languages: kazakh, russian and partially english.

The degree of satisfaction of students and the Teaching staff of educational programs is carried out by the University by monitoring the Opinions of staff, students through direct and anonymous questionnaires.

The University administration pays special attention to the prevention of conflicts of interest and relationships. Within the framework of prevention, various measures are taken, including those aimed at improving the material well-being of the Teaching staff, supporting the initiative, and encouraging scientific activities of the Teaching staff and students. A mechanism for managing conflicts of interest and relationships has been developed.

Analytical part

The experts concluded that the information collected and analyzed by the University takes into account key performance indicators, which allows managing information and reporting. Students, employers and teaching staff are involved in the processes of collecting, analyzing information and making decisions, however, the high dynamics of updating information and the need to improve the quality of its presentation require the effective use of new methods of data mining and visualization technologies, cloud services.

The Commission notes that the official website of the University and faculties is widely used as a source of information for students.

A survey of students conducted during the visit of the External expert Commission Independent Agency for accreditation and rating showed that satisfaction with:

- the level of accessibility and responsiveness of the University management: fully satisfied and partially satisfied-96.9%;
- the usefulness of the website of the educational organization in General and faculties in particular: fully satisfied and partially satisfied-95.2%, partially dissatisfied-4.8%;
- informing the requirements for successfully completing this specialty: fully satisfied and partially satisfied-93.6%;
- the library is well equipped and has a fairly good collection of books: fully satisfied and partially satisfied-88.9 %.

Strengths / Best practices

- the management of educational programs makes decisions based on facts;
- determined the frequency, forms and methods of evaluation of the management of educational programs;
- the University has a mechanism for measuring the degree of satisfaction with the needs of Faculty, staff and students in educational programs;
- the University takes into account information intended for collection and analysis in the framework of educational programs on the dynamics of the population;
- the University takes into account information intended for collection and analysis in educational programs on the level of academic performance, achievements of students and their expulsion;
- the University takes into account information intended for collection and analysis in the framework of educational programs on students ' satisfaction with the implementation of educational programs and the quality of education at the University;
- the University has shown the availability of educational resources and support systems for students;
- the University confirmed the implementation of procedures for processing personal data of students, Faculty, and employees based on their documentary consent.

Recommendations of the EEC

Regularly update information on the website of the University and faculties in three languages.

Develop and implement a long-term plan for the admission of students in educational programs 7M01501-Informatics.

Conclusions of the External expert Commission on the criteria for the standard "Information Management and reporting" for educational programs 5B011100 /6B01501 - "Informatics", 5B070300 /6B06102 - "Information systems", 6M011100/7M01501 - "Informatics", 6M060200 /7M06101 - "Informatics": strong – 7, satisfactory 10.

6.3 Standard "Development and approval of the educational programme"

Evidence part

Implementation of educational programs submitted for primary accreditation in accordance with the guidelines on the quality of education of EKSU is the main mission of the University. The evaluated educational programs are focused on students ' acquisition of academic knowledge and skills that are aimed at their personal Development and are used in their future careers.

The Development and approval of educational programs at the University is carried out in accordance with the provisions of legal acts in the field of higher and postgraduate education. At the same time, all relevant subjects of the University, Faculty, departments, departments, etc. are involved. implementation Mechanisms are Open and transparent, and decision-making is

collegial. The scientific level and goals of educational programs meet the requirements, are consistent with the mission of the University and meet the needs of potential consumers.

The experts were convinced that the procedures for developing educational programs and their approval at the institutional level at the University are defined in the internal regulatory document "Regulations on the Development of modular educational programs" (28.12.2018). the process of developing educational programs is preceded by an analysis of trends in education, a study of the dynamics of the main indicators of the labor market, analysis and forecasting of the demand for personnel.

Members of the External expert Commission confirm the following stages of Development and Development of educational programs: Development of the draft educational program by a working group of faculty members of the Department and partners-employers in accordance with the National qualification framework, industry qualification framework and professional standards (if available), the State mandatory standard of education, standard curricula and standard programs of disciplines; discussion of the draft educational program at a meeting of the Department; examination of educational programs, their relevance, formed competencies and expected learning outcomes at a meeting of the Academic Council (project Committee from 2019-2020 academic year); Development of recommendations for making changes and additions to the educational program updating of educational programs (in terms of elective subjects) by modules; adjustment of the content of the educational program (modules for achieving learning results) taking into account modern requirements; definition of teaching methods, training and evaluation that ensure the achievement of learning results; Development of assessment tasks for measuring learning outcomes in educational programs, etc.), etc. The leading role in the Development and updating of educational programs is assigned to the Academic Council (project Committee), which includes the Teaching staff, students, graduates, employers responsible for organizing the practice. The activities of the Council are regulated by EKSU 019-16 "on the Academic Council of the S. Amanzholov EKSU" (EKSU 050-19 "Regulations on the Project office").

The experts were convinced that the accredited educational programs were developed with the participation of interested parties, discussed at meetings of the graduating departments, faculty Councils, and the Academic Council of the University. The educational programs received positive feedback from external experts, were approved by employers and approved in accordance with the rules established at the University.

For example, the educational programs "5B011100 /6B01501-Informatics" and "6M011100 /7M01501-Informatics" basic information about which is publicly available at <https://www.vkgu.kz/sites/default/files/files/123/1/++6B01501%20informatics/Passport%206B01501%20informatics%20rus.pdf>, <https://www.vkgu.kz/sites/default/files/files/pasportEP/passport/passport/7M01501/passport%207M01501-Rus-on%20site.pdf> developed with the participation of: Faculty - associate Professor of the Department Kadyrova A. S., adviser Zhurtpaev A. A.; Director Rakhimzhanov G. B. – Ph. D., Director VK Republican scientific-practical center "Daryn"; Kuantaeva S. N. - K. p. n, associate Professor Iskakov B. A. - Director of Municipal public institution "Training and production plant" of the akimat of Ust-Kamenogorsk city, Erlanova R. E - a methodologist of the education Informatization of State agencies, the Department of education of akimat of Zaisan district, Trinily A. - the 3rd year student of the educational program "6B01501 - "computer science", Balgareevo Dr - PhD, associate Professor, Department of mathematical and computer modeling of EKSTU Serikbaev, Kadyrova A. S. - candidate of pedagogical Sciences, associate Professor of Department of Computer modelling and information technologies Gabitova J. - teacher of the highest category of secondary school №20 named after A. Baitursynov, Kasenova A. - teacher of the highest category in East Kazakhstan humanitarian College, Sabyrbaev A. - graduate student of 1 course of specialty 6M011100 (7B01501) - "Informatics", Tlebaldinova A. S. - associate Professor, PhD. and approved at the meeting of the Academic Council of the University on 27.06.2019, Protocol No.13. Educational program "5V070300/6B06102 Information systems" and

6M060200/7M06101 -Informatics" developed with the participation of Tlebaldinova A. S., Nugmanova A. - associate professors of the Department, PhD, Ph. D. Syzdykova A. R., lecturer Beanboy N. E. Rakhimzhanova G. B. – Ph. D., Director VK Republican scientific-practical center "Daryn", Zharkimbayeva E. K. - the Director of the Municipal public institution "Station of young technicians", Rahimbaeva G. O. - Deputy Directors limited liability Partnership "QazCloud" Ust-Kamenogorsk, Beisenova D. - teacher of Informatics of the College of life safety, Eremin A.-equipment engineer of KSU" Secondary school No. 10 " of Ridder city, Torokhanova A. A.-head of the Department of information technologies and monitoring of public services of The state administration "Office of the akim of Ulan district", students Akkazin A. (EP 5B070300 /6B06102, 4th year), Zamanbekova A.(EP 6M060200 /7M06101-Informatics", 1st year). Prerequisites and post-prerequisites are determined at the Department level, taking into account the academic achievements of students.

Experts note the existence of developed models of graduates of educational programs characterized by the ability to carry out professional activities at a given level of quality and including knowledge, skills, skills, and competencies. The graduate model of accredited educational programs was developed at the graduate departments, and the Faculty of the departments, employers, and doctoral students took part in its Development. For example, incoming proposals from employers were discussed at meetings of the Department (Protocol No. 4 of 08.01.2020, Protocol No. 4 of 09.01.2019). The qualification obtained upon completion of educational programs is defined and recorded in the model of the graduate of educational programs, it corresponds to a certain level of the national system of qualifications.

The members of the External expert Commission were convinced that the Development of educational programs is carried out taking into account the proposals of the Teaching staff and employers, representatives of the administration of professional practice bases, for example, secondary school No.20 named after A. Baitursynov, limited liability Partnership "QazCloud", Municipal state institution "Station of young technicians", EK Republican scientific and practical center "Daryn".

The experts noted that the Modular educational program is compiled in three languages: Kazakh, Russian and English, indicating the forms of examinations, ECTS credits, the language of teaching disciplines, and the designation of competencies for each discipline. The formation of individual educational trajectories is based on the Catalog of elective subjects, which contains a list of all the disciplines of the component of choice with an indication of the purpose of study, brief content and expected results of study. The number of annually updated elective subjects for accredited educational programs is 2-8 units. There is a sequence of studying disciplines based on the principles of scientific character and continuity, rational distribution of disciplines from the point of view of uniformity of the student's workload, effective use of the personnel and material and technical potential of the University. The relationship observed academic disciplines, continuity, consistency, as within one level (e.g., baccalaureate), and between different levels of education (bachelor - master, master – doctorate).

Registration of students for subjects with teacher selection is made on the educational portal through access to the student's personal account. Special attention is paid to the 1st year students when the adaptation week is organized, where detailed information about the academic policy of the University is provided, and also, with the help of the adviser, specialists of the registration office support registration for disciplines.

Analytical part

The experts concluded that the University has defined and documented procedures for developing and approving educational programs. Leadership of the educational program presented evidence for the involvement of the teaching staff, students and employers in developing educational programs, ensuring their quality, availability of the developed models of graduate education programs.

The Commission notes that for the accredited educational programs "5B011100/6B01501-Informatics", "5B070300/6B06102-Information systems", " 6M011100/7M01501-Informatics",

the procedures for developing and approving educational programs have been defined, the content of educational programs has been examined, and systematic work is being done to achieve quality learning results both in General for a specific educational program and in projecting these results to individual disciplines.

The analysis of the studied documents, as well as the results of interviews with students of the educational programs "5B011100/6B01501-Informatics", Faculty, graduates and employers allowed us to conclude that work has begun to create conditions for professional certification of students.

Strengths / Best practices

- defining and documenting procedures for developing educational programs and approving them;

- clear definition and explanation of qualifications obtained at the end of the educational program;

- Development and approval of Modular educational programs and their Development plans.

Recommendations of the External expert Committee

Study the possibilities of professional certification of graduates through leading centers and conduct targeted work in educational programs to familiarize and prepare students for certification procedures.

You should pay attention to the use of informal forms of recognition of students' achievements (through the Development of their own online mass courses and automatic assessment of intermediate certification for certificates of Mass Open online course of leading universities in the country and the world).

Develop and implement a plan to introduce elements of dual education in accredited educational programs.

Conclusions of the External expert Commission on the criteria of the standard "Development and approval of educational program" for educational programs 5B011100 /6B01501 - "Informatics", 5B070300 /6B06102 - "Information systems", 6M011100/7M01501 – "Informatics", 6M060200 /7M06101 – "Informatics": strong – 3, satisfactory 6, suggest improvements -2.

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

Evidence part

The University defines the procedure for monitoring, analyzing and reviewing educational programs. Based on the results of the visit and the meetings held, the Commission notes that the monitoring uses a feedback mechanism (survey, interview, survey of teaching staff, students). Monitoring and periodic evaluation of the evaluated educational programs are aimed at achieving its goals, the full formation of the planned learning outcomes. Planning of EP improvements is implemented using quality management tools. Measures are being developed to improve processes, which are reflected in the documentation of the quality assurance system on the University's website <https://www.vkgu.kz/ru/page/vneshnyaya-ocenka-uchebnyh-dostizheniy.html>.

For learning created by educational resource available medium, including computer equipment, software license and acquired, sites, computer classes and reading halls, book Fund, educational digital materials, etc., the University created the necessary conditions for self-education of students: in each school building library Operates with the Fund of educational, educational-methodical, scientific literature, periodicals; always-available digital library with subscriptions to domestic and foreign databases; the presence of free Internet on all computers of educational buildings is traced.

Interviewing students showed that conditions are being created for participation in competitions, competitions and subject Olympiads; student self-government bodies are working; all conditions are being created for doing research work.

Information about planned and taken actions is available to all interested parties and is presented on the official website of the University. The information collected from monitoring is analyzed and brought into line with modern requirements, the latest scientific achievements in a particular discipline, and the changing needs of society.

Educational programs submitted for primary accreditation are updated in connection with changes in the state mandatory standards of higher education and professional standards, the introduction of new directions and elective courses. Updates of educational programs are made by the decision of the Academic Council in accordance with the requests of interested parties.

Monitoring and periodic evaluation of the evaluated EP was confirmed in the minutes of meetings of departments, and minutes of meetings of the Academic Council.

The interviews showed that the University periodically (2 times a year) monitored by definition of satisfaction of faculty and students in the learning process as a whole; and a system of motivation for academic achievement, the overfulfillment of workload, as evidenced by a survey conducted by the Commission of the EEC.

An important factor is monitoring the employment and professional activities of graduates. Monitoring is carried out through direct activities: student-Department - center for marketing, career and employment-organization where the graduate works. There is a log of monitoring the employment of graduates for the last 3 years (tables 2-5). When planning work on employment of graduates, feedback is maintained with graduates of the faculty, and the received offers and recommendations from external and internal consumers are analyzed.

Table 2-data on employment of graduates of EP 6B01501 /5B011100 - " Informatics»

Academic year	Graduate		Employment by EP						
	Total University graduation (pers.)	The issue in the EP	Total employed	Went abroad	Students in the magistracy	Leave to care for a child	Servin g in the army	Not employed	Percentage of employment
2016-2017	937	25	18	0	5	2	0	7	75
2017-2018	1113	33	28	0	7	2	1	5	85
2018-2019	1450	31	31	0	3	3	0	0	100%

Table 3-data on employment of graduates of EP 6B06102 /5B070300 - " Information systems»

Academic year	Graduate		Employment by EP						
	Total University graduation (pers.)	The issue in the EP	Total employed	Went abroad	Students in the magistracy	Leave to care for a child	Servin g in the army	Not employed	Percentage of employment
2016-2017	937	10	8	0	0	0	0	2	80
2017-	1113	8	5	1	0	1	1	3	62,5

2018									
2018-2019	1450	29	23	0	4	3	0	6	79%

Table 4-data on employment of graduates of the master's degree program 7m01501 /6M011100-computer Science

2016-2017 ac.year		2017-2018 ac.year		2018-2019 ac.year	
graduate	employed	graduate	employed	graduate	employed
6	(100%)	6	6 (100%)	3	3 (100%)

Table 5-data on employment of graduates of the master's degree program 7m06101 /6M060200-computer Science

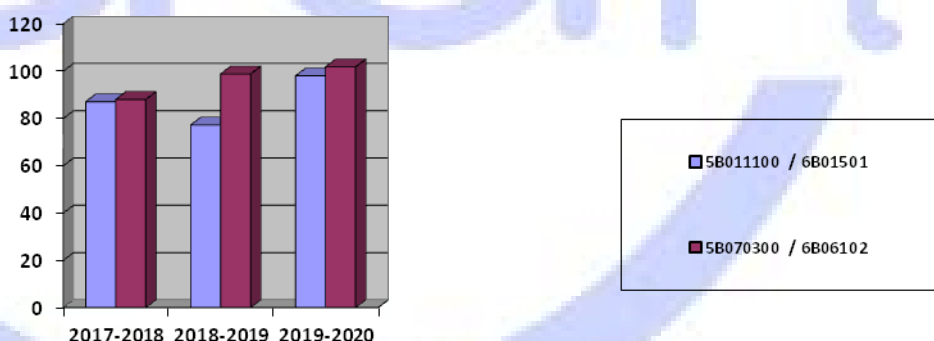
2016-2017 ac.year		2017-2018 ac.year		2018-2019 ac.year.	
graduate	employed	graduate	employed	graduate	employed
2	2 (100%)	2	2 (100%)	3	3 (100%)

Graduates of accredited PLoS are currently employed in various organizations of the education system, hold positions of IT specialists in banks, Operators, engineers, software engineers, etc.

Analytical part

The analysis of the studied documents, as well as the results of interviews with students, teaching staff, graduates and employers allowed us to conclude that the content of academic disciplines in educational programs is not always updated and modern trends in the Development of the country are taken into account. In this regard, there is a need to review the content of academic disciplines. During the interviews with employers, students, and graduates, they also expressed a desire to strengthen the practical orientation of the courses offered.

The analysis of the results of the HEUD for the last 3 years in the bachelor's degree program 5B011100 / 6B01501-computer Science and 5B070300 / 6B06102-Information systems shows a small but positive trend in improving the quality of knowledge.



The Commission found that changes to the EP are made periodically. However, during the interview, it turned out that interested parties are not always informed and are aware of the changes that are being made to the EP. The information provided on the site is also not always up-to-date. In this regard, it is necessary to strengthen work in this direction.

A survey of students conducted during the visit to the University of NAAR showed that:

- the level of responsiveness to feedback from teachers regarding the educational process is fully satisfied-69.8 %; partially-25.4%; fully satisfied with the quality of teaching -81%, partially-17.5%.

Strengths / Best practices

- monitoring and periodic assessment of the EP provides for changes in the needs of society and the professional environment,
- monitoring and periodic assessment of the EP provides for the workload and academic performance of students,
- monitoring and periodic evaluation of the EP provides for the expectations, needs and satisfaction of students with training in the EP.

The recommendations of the EEC

To strengthen the practical orientation of academic disciplines by conducting classes on the basis of branches of departments.

Improve the communication of stakeholders about any changes in the EP by activating work in social networks, introducing digital technologies, etc.

Develop criteria for evaluating all types of educational activities of students (practice, laboratory work, all types of independent work of students and undergraduates).

Conclusions of the EEC according to the criteria for the standard "Continuous monitoring and periodic evaluation of educational programs" for EP 5B011100 /6B01501 - "Informatics", 5B070300 /6B06102 - "Information systems", 6M011100/7M01501 - "Informatics", 6M060200 /7M06101 - "Informatics": strong – 2, satisfactory - 8.

6.5 Standard "Student-centered learning, teaching and performance assessment"

Evidence part

During the visit, the EEC was convinced that the S. Amanzholov EKSU provides academic freedom to students, devotes an important value to student-centered training that corresponds to the mission, goals, and policy in the field of education quality.

In EKSU student is active "entity," of the educational process, resulting in the possibility to influence the definition of the content of educational programs, formation of self-educational path, the choice of the teacher, the effectiveness of learning and teaching methods, assessment of professional qualifications of teaching staff. The University Operates a system of student self-government, through which students take part in solving social issues. The University has developed a practice of conducting sociological surveys of students for their satisfaction with the quality of education. In addition, during the reporting period, a survey was conducted that allowed students to assess the professional level of a particular teacher ("Teacher through the eyes of students"). The University administration provides equal Opportunities for students, regardless of the language of instruction, to form an individual educational program.

Changes in the learning process at the University are represented by a new position of the teacher: from the transfer of ready-made information - to the position of the organizer of active Independent acquisition of necessary competencies by students, using innovative learning technologies for this purpose: case studies, critical thinking method, project method, e-learning, etc. Teaching staff of the Department of accredited EP widely use various forms of training (discussions, modeling situations, dialogue form). To support the autonomy of students, teachers inform them about the goals of the lesson, they address the students' point of view, refrain from controlling questions, and focus on substantive and problematic issues.

At the Department, advisors and curators jointly assist in the Development of the educational program, this is expressed in providing advice during the adaptation period of students in accredited programs, in working with foreign students, in choosing disciplines, teachers, research topics, in employment issues, in social and educational aspects, and others. The individual curriculum is compiled together with the adviser and curator, based on the work With the catalog of elective subjects. An individual learning path is a prerequisite for credit technology training.

For dual training, classes in the disciplines of EP "5B011100 /6B01501-Informatics", "5B070300 /6B06102-Information systems" are held in the laboratories and production bases of rating LLP, secondary school No. 20. Ust-Kamenogorsk, KSU "Training and production plant", KSU "Station of young technicians".

In order to support students' sense of autonomy, the University encourages and tries to develop the student's ability to act and independently. In connection with the above, the University student is actively involved in: the development of IEP; student self-government, whose representative is a member of the Academic Council of the University and is directly involved in decision-making; participation in the development of documented procedures of the University QMS. The purpose of the above activities is to train the student to master the strategic techniques of educational activities from setting goals to evaluating the result.

Academic differences and arrears are paid off through the summer semester.

The educational process is fully provided with all the necessary information sources: textbooks, manuals, teaching AIDS and developments in academic disciplines, active handouts and instructions for independent work, access to online educational resources, electronic manuals of teachers, lectures, presentations, etc.

The EC Commission notes that based on the results of participation of students of accredited educational institutions in the procedures of independent evaluation of learning outcomes, in particular departments, it is confirmed by the satisfactory quality of teaching.

The final result of current and mid-term control in the disciplines is formed in the form of course and diploma projects, performed mainly with elements of scientific research.

Monitoring the success of students, undergraduates, and doctoral students can be tracked in the journal of the AIS system of EKSU. Since the University implements the code of honor (displayed on the website: <https://www.vkgu.kz/ru/page/pravila-akademicheskoy-chestnosti.html>), then it provides transparency of mechanisms for monitoring exam results, appeals, and responding to complaints from students.

Work on the implementation of inclusive education at the University is carried out on the basis of the plan for the organization of psychological and pedagogical support for inclusive education at the S. Amanzholov EKSU for 2016-2020. (full information and regulations are displayed on the University's website: <https://www.vkgu.kz/ru/page/inklyuzivnoe-obrazovanie.html>). A working group on the implementation of inclusive education was created (order No. 201-p of May 18, 2018).

The following conditions have been created: there are ramps at the entrance to buildings 1, 5, and 7, and special double-sided signs are pasted on self-adhesive film. The library of the academic building No. 1 has tables for wheelchair users. The official website of the University has a version for the visually impaired.

The University has a scientific and educational center "Ziyatker", a psychophysiological laboratory of the Resource center for professional training and professional development of the University, a laboratory of digital technologies and modeling. Modern equipment is available (speech therapy simulator "Delfa-142", audiometer, "Dark sensory room", device "Tomatis", graphological word processor Mastergraph (psychographic analysis), EEG (electroencephalograph), biofeedback system, a set of computer psychodiagnostic techniques, etc.).

Analytical part

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

During the interview with students, they expressed the problem that it is not always possible to study at a personal computer and perform CPR, write theses outside of school hours, since many came from rural areas or other regions of the country and do not have the opportunity to have their own laptop, and the opportunity to work in the library or in the computer rooms of the University is only during the daytime. Inspection of the material and technical base of the University showed that the hostel has only two computers in the hall, which is not enough for all students living in the hostel.

The Commission notes the fact that despite the fact that the University has a policy of forming a contingent of students. To attract students for all accredited programs, strengthen career guidance through digitalization. For example, a Digital School for students of the city and region could be organized for the bachelor's degree program, with the organization of field classes, which will increase awareness about the program and attract applicants, help students try out a large number of professions and decide what to choose for their future.

Strengths / Best practices

-the management of the EP ensures respect and attention to different groups of students and their needs;

- the EP guidelines provide for the use of various teaching and learning methods;

- the management of the EP demonstrated the existence of a mechanism to support the autonomy of students with simultaneous guidance and assistance from the teacher,

- evaluators are familiar with modern methods of evaluating learning outcomes and regularly improve their skills in this area.

The recommendations of the EEC

To attract students for all accredited programs, strengthen career guidance by creating a "Digital School".

Create conditions for students to work independently in the hostel and provide them with the opportunity to work on a personal computer. You should purchase several additional computers or laptops for the Dorm.

Develop and implement your own methodological research (for example, in the form of teaching AIDS) in the field of teaching elective subjects EP 6M011100 /7M01501 - "Computer Science", 6M060200 /7M06101 - "Computer Science".

Conclusions of the EEC according to the criteria for the standard "Student-centered learning, teaching and performance assessment" for EP 5B011100 /6B01501 - "Informatics", 5B070300 /6B06102 - "Information systems", 6M011100/7M01501 - "Informatics", 6M060200 /7M06101 - "Informatics": strong – 3, satisfactory - 7.

6.6 Standard "Students"

Evidence part

The policy of formation of the contingent of students is admission to the number of enrolled persons that are most prepared to study at the University, consciously chosen specialty, have scored the necessary number of points by results of UNT and CTA (graduates of General secondary schools, colleges) on the basis of the state order (grants), grant from the local budget and paid basis, as well as specialists with diplomas to get the second higher education on the basis of interview.

Admission to the bachelor's degree of University graduates of schools is carried out on a full-time basis, graduates of colleges and universities - full-time with the use of DLT on the basis of TVE, HPE.

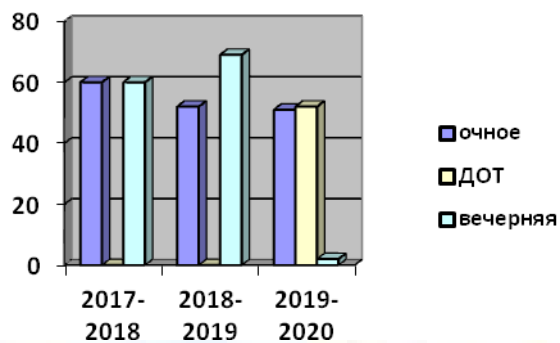
On EP 5B011100 /6B01501 - "Informatics" 51 full – time students are trained, including 47 under the state educational grant; on full – time with the use of DLT - 52; on evening training-2.

EP 5B070300 /6B06102 - "Information systems" has 74 full – time students, 63 of them under the state educational grant; full – time students using DLT-19.

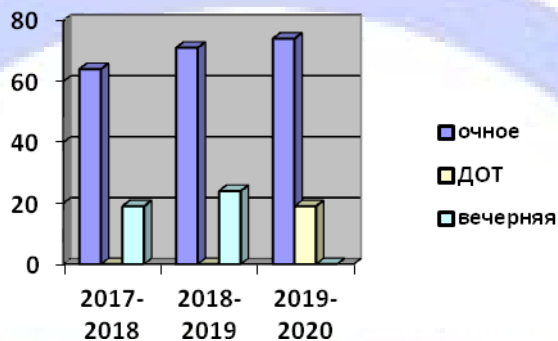
According to EP 6M011100 /7M01501 - "Informatics", 5 undergraduates are trained, including 2 under the state educational grant.

11 undergraduates are enrolled in EP 6M060200 /7M06101 - "Informatics", 10 of them under the state educational grant.

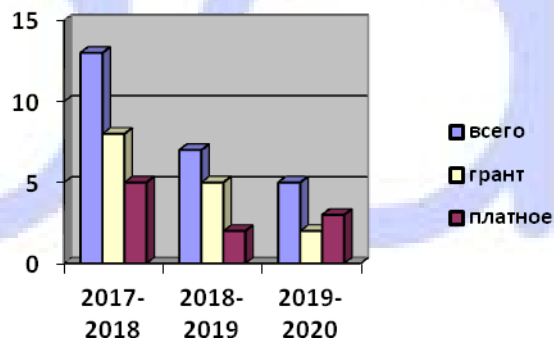
Dynamics of the contingent over the past 3 years years on EP5V011100 /6V01501 - "Informatics" and 5V070300 /6V06102 - "Information



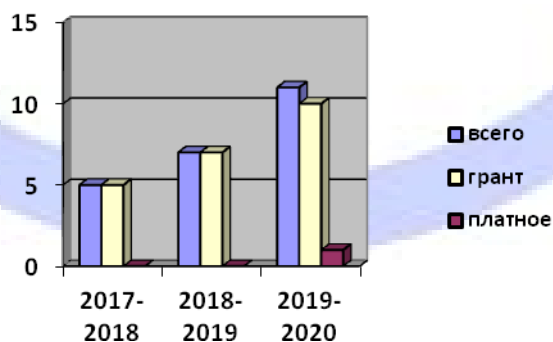
systems»



Dynamic контингента to последние 3 года-flight of the THE 6M011100 /7M01501- "computer Science" and " 6M060200 /7M06101 -



"It»



In order to provide vocational guidance to high school students, systematic career guidance is carried out. Explanatory work is organized among graduates of schools in the city and region: meetings are held with students, parents and teachers. The policy of forming a contingent is actively involved in graduates of EP of different years.

At the time of the admission Committee, according to the approved schedule, teaching staff of departments during the summer period familiarize applicants with the University's EP.

Full information about all the departments ' EP is given for the correct choice of the future profession.

For applicants and their parents, reference books of specialties in Russian and Kazakh languages have been prepared, containing information about the features of the EP, as well as future professional activities.

The University has a system of adaptation support for students, a Registrar's office, an adviser service, and the first adaptation week for first-year and foreign students. All related information is reflected on the University's website <https://www.vkgu.kz/ru/page/bakalavriat-materialy-po-organizacii.html>.

During the adaptation week, meetings are organized with deans, heads of departments and advisors, the curator gets acquainted with the Charter, mission and strategy of the University, rules of conduct at the University, which is confirmed when interviewing students. Students are informed in a timely manner about the prospects of their future professional activity, with the help of the service of advisors and a curator, the formation of an individual educational trajectory takes place. During the adaptation period, curators conduct study tours of the University. All procedures regulating the life cycle of students, including GPA transfer points, are approved by the academic Council and published on the University's website <https://www.vkgu.kz/ru/page/vneshnyaya-ocenka-uchebnyh-dostizheniy.html>.

Orders for the movement of students are created and registered office Registrar, introduced a permanent capturing and analyzing the causes of motion of contingent of students by levels of education and forms of education.

An important factor is the presence on the University's website of the Vkgulive subsection, which includes: success and achievements of students, provisions for social support of students, youth policy and educational work <https://www.vkgu.kz/ru/page/v-pomoshch-pedagogu.html>.

Career guidance work is carried out in accordance with the approved plans of the University departments to prepare applicants for admission to the UNIVERSITY. Centralized management of this work is assigned to the pre-University training center. All information is available on the site, including information on the formation of the student body, etc.

Each Department of the University conducts school visits, interviews with parents and graduates, questionnaires, presentations of videos about the University's specialties, organizes contests and competitions, subject Olympiads and Open days in order to recruit applicants. City and district schools of the region are assigned to each Department of the University.

Admission to the University is based on the results of the unified national testing (UNT) and comprehensive testing (CT). Upon admission to the University, every student receives a contract for the provision of educational services, which contains information on the rights and obligations of the parties, the amount and manner of payment of educational services, responsibility of the parties and the dispute resolution procedure, the expiration date, changes the terms of the contract and its termination.

Work to ensure academic mobility is carried out on the basis of the "Regulations on academic mobility". The ecsu ensures that its actions comply with the Lisbon recognition Convention. Academic mobility programs for EKSU students are funded by the Ministry of education and science of the Republic of Kazakhstan and the University.

Taking into account the professional requirements for a specialist in the labor market and the requirements of potential employers, dual training agreements have been concluded:

- EP "5B011100 /6B01501-Informatics" - MSI " Secondary school No. 20 named after Akhmet Baitursynov".

- on EP "5B070300 /6B06102-Information systems" - MSOE "station of the young technician"; MSI "Educational and production combine".

For the formation of professional competence of students signed contracts with bases of practice:

- EP "5B011100 /6B01501-Informatics" MSI "Secondary school No. 46" of the akimat of Ust-Kamenogorsk / No. 241 from 06.02.2020; MSI " Lyceum No. 44 named after Oralkhana

bokeya "of the Ust-Kamenogorsk city akimat / No. 178 dated 05.06.2019; MSI" Kayynda main secondary school "/ No. 179 dated 05.06.2019; MSI " Secondary school No. 16 named after him. Zaki Akhmetov "Ust-Kamenogorsk / No. 83 from 20.06.2018; MSI" Secondary school No. 20 named after Akhmet Baitursynov " Ust-Kamenogorsk / No. 84 of 20.06.2018; "STEM" center of the educational center "Yport" / No. 81 of 20.06.2018; MSI "Secondary school No. 46" of the akimat of Ust-Kamenogorsk / No. 38 of 26.06.2017. (University-wide); MSI "Secondary school No. 15" of Ust-Kamenogorsk / No. 30 of 14.06.2017 (University-wide); MSI "school-Lyceum No. 3 named after sh.Ualikhanov" of Ust-Kamenogorsk / No. 33 of 23.07.2017; MSI "Secondary school No. 42" of Ust-Kamenogorsk / No. 32 of 23.06.2017; Branch "Nazarbayev Intellectual school of chemical and biological direction" of Ust-Kamenogorsk / No. 47 of 23.09.2017 (University-wide).

- under EP "5V070300 /6B06102 Information systems" - JSC "Asia AUTO" / №240 from 06.02.2020 G.; LLP "Arena S" / №239 from 06.02.2020 G.; Branch No. 0616 JSC "BankCenterCredit" / No. 238 06.02.2020 G.; East Kazakhstan regional scientific practical center "Daryn" / No. 155 16.10.2018 G.; GU "akim's Apparatus of Ulan area", information technology Department and monitoring of public services / No. 82 of 20.06.2018 G.; MSI "Training industrial works", 2017; East-Kazakhstan branch of "national center of legal information" of the Ministry of justice of RK, 2017; "Kazpost", 2017; Information security center LLP, 2017; UK installation-service LLP, 2017; branch of ATF Bank JSC, Ust-Kamenogorsk, 2017; MSOE "station of young technicians" of the Ust-Kamenogorsk city akimat, 2017; MSI "East Kazakhstan regional children's village" of the Department of education of East Kazakhstan region, 2017; Nurly Sayakhat LLP, 2017; JSC "national center of expertise and certification", 2017; East Kazakhstan specialized Lyceum "BILIM-INNOVATION" for gifted children of Ust-Kamenogorsk, 2017; rating LLP, 2017; MSI "educational and production combine" 2017; East-Asia NT plus LLP, 2017

- on EP "6M011100 /7M01501-Informatics" - MSI" Secondary school No. 39 "of Ust-Kamenogorsk, 28.08.2019; MSI" school-Lyceum No. 3 named after sh. Ualikhanov "of Ust-Kamenogorsk, 28.08.2019; MSI "East Kazakhstan humanitarian College", 28.02.2019; MSI "Secondary school No. 46" of Ust-Kamenogorsk, 28.08.2018;

- according to the EP "6M060200 /7M06101-Informatics" - public service Center of the branch of the NAC civil code of the government of citizens, branch No. 3, 25.08.2018, VK JSC "Kazpost", 25.08.2018, LLP "Ust-Kamenogorsk plant of polyethylene pipes", 25.08.2018, MSI "secondary school of the village of Praporshchikovo" of the Glubokovsky district of East Kazakhstan region, 28.08.2019

Employment of graduates at the University is provided by a close connection with the bases of practices, job fairs and "Open days" with the participation of companies of potential employers.

The University has a system of support for gifted and socially vulnerable students in the form of personal scholarships, discounts on tuition, food stamps and public transport (the situation is reflected on the University's website <https://www.vkgu.kz/ru/page/socialnaya-podderzhka-studentov.html>). Gifted students are involved in research activities, make presentations at national scientific and practical conferences, round tables. The University has created the necessary conditions for creative Development and participation of students/undergraduates in scientific research. Forms of organization of research activities are participation of students in conferences, seminars, competitions; publications in scientific journals and collections of reports, conference materials. Students annually participate in the research work of student scientific circles and Cathedral research topics. The topic of the scientific direction of the Department - "Research of models and modeling methods in the research activities of future IT specialists" - is presented in the sub-topics: 1)" Development of professionally-oriented electronic resources in the system of training it specialists based on a multilingual approach "(head-PhD Kadyrova A. S.); 2)" Automatic construction of concept maps based on text processing " (PhD Nugumanova A. B.).

In the 2017-2018 academic year, in the annual competition of EKSU "Granite of science-2018", dedicated to innovative research, in the category "Best project in the field of technical and natural Sciences", a 4th-year student of EP 5B011100 - "Informatics" Morozova T. S. was awarded a diploma for the III place. In the 2018-2019 academic year, 6 students took part in the Republican scientific and practical competition "Gylym sharainasy", organized by the NMC "ZIAT", their projects were awarded diplomas for I-III Places (students of EP 5B011100- "Informatics" baltabayeva N., Begaly A. – 2nd place, Medieva A. – 3rd place). 4th year student of EP 5B011100 - "Informatics" baltabayeva N. published an article in the collection of materials of the XXVI International scientific and practical conference "WORLD SCIENCE: PROBLEMS AND INNOVATIONS", Penza, Russia; 2nd year student of EP 5B011100 - "Informatics" Anuarbek N. participated in the National competition of socio-economic projects ENACTUS KAZAKHSTAN SPRING CAMP-2019; 4th year student of EP 5B011100 Adilet K. participated in the National contest of youth business projects "STARTUP BOLASHAK - MENIN ARMANI" in team project "Kazak ulttyk ertegin nageslagen euinside", which took place in the final of the competition.

4th year student of EP 5B070300 - "Information systems" amrenova D. R. participated in the conference "international applied IT school" Mathematical methods and models in ecology "(2018, Barnaul, Russia) and won the first Place, student of EP 6B06102 /5B070300 – "Information systems" in the national competition of scientific projects of the NMC "Ziat" Adalbek B. – 2nd place. The contest Hackathon "Altai-2019" was attended by students of this EP Akkazin A., Muhamzharovr.N.).

Master's students of EP 6M011100- "Informatics" Arshyn Zh. (diploma of I degree) participated in the national competition of scientific projects of NMC "Ziat" (Nur - Sultan), and in the International research competition "Best scientific article" (Penza, Russia)-Oralkhanova B. (diploma of I degree).

EP 6M060200 in the Republican contest of research projects NMC "Ziat" involved Askarbekov A. (diploma of 3 degrees), Mukambaeva C (1st place); International competition "University knowledge-2020" (Moscow, Russia, March 2020, masters EP 7M06101 – "Informatics" of baltabekov A. – 1st place, Amrenova D. - 3rd place).

The University supports the desire of students to complete foreign internships in the areas of training. For example, from 25.06.2018 to 30.08.2018, a 3rd-year student of EP 5B070300 - "Information systems" Amrenova D. completed a summer internship at the Graz technical University (Graz, Austria) in the direction of "Computer and Information Sciences. Support Services».

As part of the academic mobility program, 2 3rd-year students of EP 5B070300 - "Information systems" A. Kalymov, D. Amrenova were trained under the academic mobility program at the Catholic University of Lublin (Poland) in the 2017-2018 academic year (30.09.2017-12.02.2017).

In General, in the context of the considered EP, the outgoing academic mobility program for the last 3 years was attended by 5B011100 /6B01501-computer Science-9 students, 5B070300 /6B06102-Information systems-7 students, 6M011100 /7M01501-computer Science-2 undergraduates. According to the program of incoming mobility, 2 students of Targmu were trained in our University for the specified period in EP 5B011100-Informatics.

The contingent of foreign students for the 2019-2020 academic year is studying in the number of 6 people only on EP 5B011100 /6B01501-computer Science (5.6%).

Disabled people, orphans and children left without parental care and under guardianship, as well as students who have only "excellent" grades based on the results of the examination session, are eligible for an increased state scholarship. Taking into account the needs of students, the teacher provides individual assistance and advice during the Development of the discipline by the student, which contributes to a deeper understanding and formation of critical thinking. In this way, students' self-regulated learning helps them master the skills of defining specific goals, adapting effective strategies to achieve goals, monitoring effective time management, self-

evaluating their methods, determining cause-and-effect relationships, and adapting future methods.

An important factor is the presence on the University's website of a whole section "research activities of students" on the scientific achievements of students, where there are many subsections with the provisions and scientific achievements of students. For example: student achievements; student scientific circles; main achievements of the University's research institutes; student Olympiads, competitions.

The meeting of members of the expert group with students and graduates of the University showed that the University successfully Operates student self-government.

The Department of educational work and social Affairs and the Committee on youth Affairs are working to maintain a healthy moral and psychological climate in the student body. Students actively participate in the work of collegial management bodies (Academic Council, rectorate, Academic Council, DAS, etc.). in General, effective forms and methods necessary for the formation of a competitive specialist are used to organize educational work with students. To fully Develop the creative potential of students, informal competitions and festivals, concerts, KVN, debates, visits to concerts, museums, exhibitions, performances, sports competitions among students, teaching staff and employees are organized within the framework of traditional sports competitions. Curators and advisors together with students annually participate in AIDS prevention months, clean-up days "Clean Thursday", "Plant your tree", "I am a patriot", etc.

Confirmation of research activities involving students is available on the University's website <https://www.vkgu.kz/ru/page/osnovnye-dostizheniya-nirs-universiteta.html>.

Analytical part

In EKSU, the procedure for forming the University's contingent is regulated and reflected in the academic policy. To adapt students, an orientation study week is held. Students take an active part in the scientific, academic and socio-cultural life of the University, according to the specifics of the EP: conferences, clubs, start-up projects (all achievements are published on the University's website). As part of the implementation of academic mobility, students of all accredited schools go to universities in Kazakhstan and Russia. According to the results of interviews with students (bachelor's, master's), the Commission was convinced of the passage of academic mobility of students in EP 5B011100/6B01501 - "Informatics", 5B070300 /6B06102- "Information systems "and internships in EP 6M011100 /7M01501 - "Informatics", 6M060200 /7M06101 - "Informatics", their documentation, credit transfer. However, the Commission noted weak activity in the direction of external incoming mobility for all accredited EP.

The meeting of the members of the expert Commission with employers and visits to the practice bases confirmed the excellent Opportunities of the University to provide students with practice places, promote employment of graduates, and maintain communication with them.

The WEC survey of students showed that support learning materials in the learning process are fully satisfied with 98% of students ' satisfaction with the existing educational resources of the University are satisfied with 98 % of students, teaching and relevance of its teaching fully удовлетворены95% of students.

Students Express full or partial satisfaction with the availability of academic counseling (76.2%/22.2%); the availability of health services (73%/19%); the availability of library resources (79.4%/17.5%); existing educational resources (76.2%/22.2%); the overall quality of educational programs (73%/25.4%); the relationship between student and teacher (82.5%/19%).

Strengths / Best practices

- The University has a policy of forming a contingent in the context of EP from admission to graduation;
- the EP management determines the maximum size of the group when conducting seminars, practical classes, and laboratory classes;
- the EP management has a policy of forecasting the number of state grants;
- the management of the EP conducts a policy of analyzing the available material and technical, information resources, and human resources;

- the user analyzes the potential of social conditions for students;
- the management has demonstrated its readiness to provide students with places of practice, promote employment of graduates, and maintain communication with students.;
- it is possible to provide EP graduates with documents confirming their qualifications.

The recommendations of the EEC

Expand the range of programs and increase the number of students traveling within the framework of internal and external academic mobility in all accredited programs.

Conduct a series of round tables with recent graduates to exchange experience and integrate them into the alumni Association.

Conclusions of the EEC according to the criteria for the standard "Students" for EP 5B011100 /6B01501 - "Informatics", 5B070300 /6B06102 - "Information systems", 6M011100/7M01501 - "Informatics", 6M060200 /7M06101 - "Informatics": strong - 1, satisfactory -11.

6.7 Standard «Teaching staff»

Evidence part

Personnel policy is carried out in accordance with the main priorities of the university strategy. The staff of the teaching staff of educational programs is completed in accordance with the legislation of the Republic of Kazakhstan and the Rules for the competitive replacement of positions of scientific and pedagogical personnel of higher educational institutions.

The selection of personnel is carried out on the basis of an analysis of the needs of the educational program, according to the results of which a competition is announced for filling vacant positions. Appointment and promotion is carried out on the basis of the order of the rector of EKSU named after S. Amanzholov, taking into account the professional competence of employees and teaching staff. The personnel potential of the teaching staff, in general, corresponds to the strategy of the S. Amanzholov EKSU and the specifics of the accredited EP.

The department employs 13 full-time teachers, their average age is 39.6 years, among them 4 PhD doctors in the specialty "Information systems", 1 PhD doctor in the specialty 6D011100 - "Informatics" 2 candidates of technical sciences, 2 candidates of pedagogical sciences. The share of staff teaching staff with academic degrees and titles is according to "5B011100 / 6B01501- Informatics" - 56.52%, "5B070300 / 6B06102-Information systems" - 61.54%, "6M011100 / 7M01501 -Informatics" - 100%, "6M060200 / 7M06101 -Informatics" - 100%. 2 professors teach classes at accredited EP: Ph.D. Igibaeva A.K. (magistracy), doctor of philosophical science Akhmetzhanova K. (bachelor's degree).

The Development of human resources is also carried out through the replenishment of the teaching staff with graduates of the magistracy and doctoral studies, as well as by holding annual competitions for vacant teaching staff positions in accordance with internal regulatory legal acts, based on the needs of the EP implementation. Young teachers are planned to enter the target doctoral studies every year. Two teachers of the department - Ualkhanova A.T. (2017-2020) and Karmenova M.A. (2018-2021) are studying in the general doctoral PhD on EP 7D070300- "Information Systems" (Ust-Kamenogorsk).

Highly qualified specialists work at the Department of Computer Modeling and Information Technologies. At the same time, the EEC notes clear leaders that young people are guided by: A. Nugumanova (2018), Zh.Z. Zhantasova. (2019) are holders of the title of "Best University Teacher". Zhantasova Zh.Z. - Member of the Dissertation Council for the defense of doctoral dissertations for the award of the academic degree of Doctor of Philosophy (PhD) EKSTU named after D. Serikbayev in the specialties "6D070300-Information systems (by industry)", "6D070200-Automation and control." Syzdykpaeva A.R. - Member of the RUMS in KazNU named after al-Farabi, Madiyarov M.N. - awarded the Certificate of Honor of the

Ministry of Education and Science of the Republic of Kazakhstan in 2009 and 2017, Zhantasova J. - 2018. Letter of thanks from the rector of EKSU named after S. Amanzholov have A. Tlebaldinova, A. Kadyrova.

In 2019, Zhantasova Zh.Z. completed a language internship at Barlington School (UK), Beldeubaeva Zh.T. traveled to the University of Helsinki, LUMA Center for the Study of Learning Technology (Finland), Nugumanova A.B. - to Tomsk Polytechnic University (RF) to discuss the results of scientific work.

During the reporting period, 10 teachers underwent advanced training in JSC "National Center for Advanced Studies" Orleu "(2015-2019, Almaty), 8 teachers - advanced training, organized by the Center for Pedagogical Excellence of JSC" Nazarbayev Intellectual Schools "(2018-2019 biennium, Nur-Sultan); 2 teachers - courses of KazNU al Farabi (2019, Almaty), 2 teachers (Zhunusova G., Kubentaeva S.) - courses on the Development of massive Open online courses (MOOCs), 7 teachers - training course "Intensive training of chemistry teachers and computer science of universities to the English language ", organized jointly with the Ministry of Education and Science of the Republic of Kazakhstan and the Karaganda State University named after E.A. Buketov (2016), 3 - course " CLIL design ", organized by the Nazarbayev Intellectual School in Ust-Kamenogorsk (2017); 4 - teachers - course "Improve your English" (center of multilingual education "Til Alemi" EKSU named after S. Amanzholov (2018-2019), 3 teachers of the department received diplomas in the specialty 5B011900- "Foreign language: two foreign languages" on the basis of HPE with the use of distance learning technologies (2017-2019).

Teachers through Open classes, methodological seminars of the department train other teachers.

Two teachers have MOOC certificates based on the EdX platform: Nugumanova A.B. "Introduction to R for Data Science", Tlebaldinova A.S. "Introduction to Python for Data Science". 14 teachers and employees of the department have a CEPT certificate, the teachers of the department constantly carry out advanced training both at the republican and international levels.

EEC notes as significant achievements in research activities: participation of teaching staff in projects for grant financing (Tlebaldinova A.S.); availability of contractual projects (A. Nugumanova, A. Tlebaldinova); availability of patents and acts of implementation (A. Nugumanova, S. Adikanova, A. Tlebaldinova, A. Sadvakasova, A. Zhurtpaeva, M. Kaidarova, A. Kadyrova, A. Syzdykpaeva); the presence of foreign articles with an impact factor (Nugumanova A., Adikanova S., Tlebaldinova A.S., Sadvakasova A.K., Zhantasova Zh., Syzdykpaeva A., Zhurtpaeva A., Kaidarova M., Beldeubaeva Zh.T., Kadyrova A.S.).

Over the past 5 years, the teaching staff of the department have prepared and published more than 22 scientific articles published in journals indexed by the Web of Science and Scopus databases. The scientific significance of publications is expressed in the citation index, the so-called. Hirsch index (table 6).

For the last 3 years, teachers of the department have prepared and published monographs - 3, of which one is in English, with a total volume of 20 pp; textbooks - 8, total volume of 86 pp; methodical instructions - 2, with a total volume of 10 pp.

During the reporting period, teachers S. Adikanova, A. Tlebaldinova, A. Sadvakasova, A. Syzdykpayeva, Zh. Zhantasova, A. Zhurtpayeva, M. Kaydarova from all accredited EP received 6 copyright certificates.

Table 6 - Information about the quality of scientific publications of scientists in the department

Author	h-index		Citations, without self-citation.	Citations, without self-citation.	Number of publications	Number of publications
	WoS	Scopus	WoS	Scopus	WoS	Scopus
Adikanova	1	1	4	3	2	7

(Sailarbek) Saltanat							
Beldeubayeva Zh.	1	1	1			3	4
Nugumanova A.	2	3	5		7	9	15
Sadvakassova A.		1				2	2
Syzdykpayeva A.		1			2		5
Tlebaldinova A.	1	1	3		5	3	4

Specialists from production were invited within the framework of the bachelor's program: D. Ospanov, Rating LLP), E.K. Zharkembaev. (KSU "Station of young technicians" of the Akimat of Ust-Kamenogorsk), Ph.D. Iskakov B.A. (KSU "Training and Production Plant" of the Akimat of Ust-Kamenogorsk).

In 2019, teachers of the Nazarbayev Intellectual School were involved in the examination of the EP for the training of pedagogical personnel: the examination of the EP 5V011100 / 6V01501 Informatics, carried out by the teacher-expert of the methodological association "Informatics" of the NIS KhBN Ust-Kamenogorsk Sadykanova OO. Reviews for the EP were given by the director of the school-lyceum No. 3 named after Sh. Ualikhanov, Ye.T. Department of Theoretical Cybernetics and Applied Mathematics, Altai State University (Barnaul, RF).

The teaching staff of accredited EP regularly improve their qualifications through the Center for Pedagogical Excellence of the AEO "Nazarbayev Intellectual Schools", JSC "National Center for Advanced Studies" Orleu ", are the leaders and consultants of school scientific projects" Daryn ", " Nazarbayev Intellectual School "in Ust-Kamenogorsk, are by the authors of the republican database of ICT tests (VOUD).

The management of the EP is taking certain measures to attract the best foreign lecturers to the lectures. At the department, within the framework of academic mobility, lectures were given by Professor, Doctor of Physical and Mathematical Sciences, Head of the Department of Theoretical Cybernetics of the Kiev State University named after Shevchenko Krak Yu.V., Professor of the Institute of Electronics and Information Technologies, Lublin Technical University (Poland) DR.HAB.INZ Waldemar Wojcik, Professor, Doctor of Technical Sciences Oskorbin N.M. (AltSU, Barnaul, RF).

Kadyrova A., Adikanova S. conducted classes within the framework of internal academic mobility at the Aktobe Regional State University named after K. Zhubanov (March 2019).

The university administration strongly supports the striving of the teaching staff to improve their qualifications and write articles in journals with a non-zero impact factor, the latter is regulated by S. Amanzholov's EKSU regulations specially developed at the university "On measures to encourage faculty and staff based on the results of publications in international scientific journals "(PVKGU 017-19 dated 1.03.2019 can be read at the link https://www.vkgu.kz/sites/default/files/files/nauka/pyblicasii/P_VKGU_017_19.pdf

The university takes certain actions to motivate the professional and personal Development of EP teachers. So, for the successes achieved in educational, scientific and educational work, the leadership of the university in relation to teachers and employees applies various measures of moral and material incentives: certificates of honor, letters of thanks, prizes, presentation for awards. Material assistance is provided to teachers and university staff in necessary cases.

The teaching staff is involved in the Development of the regulatory framework, test tasks; conducting an external assessment of the educational activities of universities; preparation of expert Opinions on the quality of dissertation research, teaching aids, scientific monographs; subject Olympiads for students in specialties, and also actively participate in scientific research work. In addition, teachers are actively involved in social activities, as evidenced by the large number of awards, letters of thanks, diplomas, etc.

Analytical part

Based on the results of the analysis in the context of the "Teaching staff" standard, the commission came to the conclusion that the EKSU named after S. Amanzholov has an objective and transparent personnel policy. The personnel potential of the accredited EP corresponds to the

strategy of the university, qualification requirements, the level and specifics of educational programs. The management of the university pays great attention to the Development of human resources and the training of its own graduated personnel from among its graduates and young teachers.

The management of the assessed EP demonstrates an awareness of responsibility for their employees and providing them with favorable working conditions and a change in the role of the teacher in connection with the transition to student-centered learning: a rating system of remuneration and material incentives based on its results; free access to the library fund and information resources of the university; providing an Opportunity to improve qualifications at the expense of the university in accordance with the decision of the university management.

The teaching staff of the departments assessed by the EP take an active part in the functioning of the university, as well as are engaged in research activities, funding of which is carried out at the expense of the republican budget, on a contractual basis with business entities.

EEC notes the high research and publication activity of the faculty.

The Commission notes that despite the fact that the university is carrying out some work to Develop academic mobility of teaching staff, the analysis of the dynamics of academic mobility still shows its insufficient Development.

According to the results of the questioning of the teaching staff of the accredited EP showed that

- the university provides an Opportunity for the continuous Development of the potential of the teaching staff: very good - 66.7% and good - 33.3%;

- encouragement of innovative activity of teaching staff: very good - 66.7% and good - 33.3%;

- the level of stimulation and attraction of young specialists to the educational process: very good - 50% and good - 50%;

- Adequacy of recognition of the potential and abilities of teachers: very good - 50% and good - 50%.

Strengths / Best Practice:

- The university has an objective and transparent personnel policy, including recruitment, professional growth and staff Development, ensuring the professional competence of the entire staff.

- human resources correspond to the Development strategy of the PA and the specifics of the EP;

- EP management is aware of the responsibility for its employees and provides them with favorable working conditions;

- the university provides Opportunities for career growth and professional Development of the teaching staff of the EP.

EEC recommendation

Continue work on the Development of academic mobility of teaching staff (external and internal) within all accredited EP.

To Develop and implement massive Open online courses in basic and major disciplines in the EP implementation process.

Develop and implement a long-term plan for the Development of international and national academic mobility of teaching staff (incoming and outgoing), for example, with universities included in the tEP 500 QS rating and tEP 10 Kazakhstan ratings.

Develop author's training programs for testing and implementation with the aim of subsequent exchange of experience within the framework of academic mobility programs.

Conclusions of the EEC on the criteria for the Standard «Faculty» for EP 5B011100 / 6B01501 - "Informatics", 5B070300 / 6B06102 - "Information systems", 6M011100 / 7M01501 - "Informatics", 6M060200 / 7M06101 - "Informatics": strong – 3, satisfactory - 9.

6.8 Standard “Educational resources and support systems for students and undergraduates”

Evidence part

EKSU named after S. Amanzholov has a material and technical base that provides for all types of practical training and research work of students, provided for by the educational programs of the university and corresponding to the current sanitary-epidemiological and fire-prevention norms and rules.

All buildings of the university have a system of internal water supply and sewerage, power supply, heating, ventilation and air conditioning, telephony, and are connected to city communication networks. Artificial lighting of classrooms, laboratories and classrooms complies with current regulations. Educational buildings and student dormitories are equipped with fire-fighting devices.

The university has the necessary auditory fund, computer classes, gyms, a rich book fund. Specialties are equipped with the necessary classroom fund, educational laboratories, computer labs, teaching materials and specialized rooms.

The educational process of the University is supported by 9 servers: Plato server, Proxy server, IC server, mail server, Moodle server, DNS server, social network, etc. The University has 11 Wi-Fi access points.

For educational and research purposes, the issuing departments use the following licensed software: MatLab, 3D StudioMax 2017, MS SQL Server 2014, Antiplagiat.Vuz, MS SharePoint, Antivirus programs EsetNod 32, etc.

The necessary living conditions, cultural environment, conditions for the Development of sports have been created. Full-time students of the faculty live in the Student Houses. In the House of Students No. 4 there are: a recreation room, a reading room, a shower room, a laundry room, etc. The reading room has a small library and Wi-Fi access.

The total number of student places is 1753. The classroom fund of the EP has rooms: the educational laboratory "ROBOLAB" (room No. 216), specialized rooms (room No. 210 - Robotics room, No. 219 - Computer science teaching methodology room, No. 214 - Computer architecture room) and 7 computer labs with passports, fire extinguishing equipment, reading and sports halls.

In the educational building No. 7 there is an experimental-industrial site of the National Scientific Laboratory for Collective Use of EKSU named after S. Amanzholov, on the basis of which laboratory and practical classes are carried out, graduate works and master's theses are carried out, educational and industrial practices are underway.

In general, the material, technical, informational and library resources used to organize the process of education and upbringing are sufficient to fulfill the stated mission, goals and objectives and meet the requirements of the educational programs being implemented.

One of the most important subdivisions providing information and methodological support of the educational process is the library.

The whole process of document processing is automated with the help of AS "IRBIS-64". Bibliographic records are created to search for information in the electronic and card catalogs of the library. All documents are indexed and systematized according to the UDC. The electronic catalog of the library includes the databases "Books", "Works of scientists of EKSU", "Articles", "Rare fund", "Library of electronic full-text documents - Rukhaniyat", DB "Social history", "Archive of publications of EKSU", etc. The catalog is available on the corporate network of the University and on the Internet at the library website <http://library.vkgu.kz>. The library network unites 150 computers from all structural subdivisions of the library of the main building of the University and branch libraries of other educational buildings.

The Terminal class is organized in the reading room of the library students. This is a completely new type of connection to the Internet and the resources of the University, ensuring the efficiency of obtaining information.

The library's information capabilities are expanding through access to international and national resources available via the Internet: Web of Science "Clarivate Analytics" (formerly Thomson Reuters); Springer Link (Springer GmbH); ScienceDirect, Scopus (Elsevier B.V.), Republican Interuniversity Electronic Library (RIEL); the project of the Kazakhstan National Electronic Library (EGBF-KazNEB), initiated by the NAB RK; project on the use of resources of International databases within the framework of the National subscription; Regional project of libraries in Ust-Kamenogorsk on corporate bibliographic processing of periodicals of the Republic of Kazakhstan, as well as with the Irbis corporation to organize corporate exchange of bibliographic records with the largest libraries in the world.

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

Electronic access to library resources is carried out through the University website page <http://library.vkgu.kz>

The book fund of the library as of 01.01.2020, taking into account the write-offs made, is 1,052,964 copies. and 124,711 titles, including the fund of educational, educational-methodical and scientific literature - 583,342 copies, of which 342,196 copies are in the state language.

Table 7 - The volume of the general book fund by profile disciplines of EP

№	EP indicator	Academic year (copies)				
		2015-2016	2016-2017	2017-2018	2018-2019	2019-2020
1	6B01501- Informatics	13048	13186	13568	13859	14251
	including in English	55	78	81	78	89
2	6B06102-Information Systems	13177	13302	13707	14018	14296
	including in English	47	89	152	127	103
3	7M01501 - Informatics	1530	1560	1575	1622	1645
	including in English	21	27	42	36	31
4	7M06101 - Informatics	1051	1079	1098	1150	1189
	including in English	12	19	34	47	28

Students have access to support systems Moodle, Platonus, <http://euniver.vkgu.kz/> and remote (www.edu.vkgu.kz).

The University has Opened the Student Service Center "PARASAT", focused on the implementation of the state program "Digital Kazakhstan", the purpose of which is to provide students with administrative, advisory services on the principle of "one window" based on high standards of service.

The commission notes that the socio-cultural environment of the university and favorable conditions for the Development of the individual and the regulation of social and cultural processes that contribute to the strengthening of the moral, civic, general cultural qualities of students have been created at EKSU.

Analytical part

As a result of a visual inspection by members of the EEC of the facilities of the material base, it was noted that to ensure the educational process of accredited educational programs, the university possesses all the necessary educational and material assets. The buildings and structures of the university comply with the current sanitary standards and fire safety requirements. Classroom and laboratory facilities, classrooms and other premises, sports facilities comply with the established norms and rules.

Educational programs are equipped with the necessary classroom fund, educational laboratories, computer labs, and a gym.

Students have access to computers connected to the Internet, and after school hours.

To Optimize the educational process and visibility of teaching at EKSU named after S. Amanzholov uses multimedia tools: video projectors and interactive whiteboards. To achieve the educational goals and objectives of the EKSU named after S. Amanzholov has various types of technical resources: laboratory equipment, installations, stands, models and models of products used for educational and research purposes, computer and other computer technology, software.

The organization of checking written works for plagiarism is regulated by the QMS procedure No. 29 dated April 1, 2019 "On the use of the Antiplagiat system", which describes in detail the process of checking students' written works.

Also, when examining the material and technical base, conducting interviews with students, they voiced a desire to improve the material and technical resources of the university.

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

- availability of library resources: 79.4% are fully satisfied and 17.5% are partially satisfied;
- accessibility of computer classes and Internet resources: fully satisfied - 74.6% and partially satisfied - 20.6%;
- classrooms, classrooms for large groups: completely satisfied - 69.8% and partially satisfied - 23.8%;
- lounges for students: completely satisfied -55.6% and partially satisfied - 23.8%;
- available scientific laboratories: 76.2% are fully satisfied and 15.9% are partially satisfied;
- providing students with a hostel: completely satisfied - 69.8% and partially satisfied - 19%.

Strengths / Best Practice:

- The university conducts an examination of the results of research work, graduation works, theses for plagiarism.

EEC recommendations

Consider expanding classrooms and student lounges.

To meet the needs of various groups of students to replenish the library resources with literature in English.

EEC conclusions on the criteria for the Standard "Educational resources and support systems for students and undergraduates" for EP 5B011100 / 6B01501 - "Informatics", 5B070300 / 6B06102 - "Information systems", 6M011100 / 7M01501 - "Informatics", 6M060200 / 7M06101 - "Informatics": strong - 3, satisfactory - 7.

6.9. Standart "Public Information"

Evidence part

Information about the activities of the university and the implementation of educational programs is posted on the official website www.vkgu.kz.

The university has a variety of ways to disseminate information to inform the public and stakeholders. Information is available on the following information carriers and materials:

- official web site of EKSU named after S. Amanzholov –www.vkgu.kz,
- [system of announcements and news - http://euniver.vkgu.kz](http://euniver.vkgu.kz),
- quarterly issue of the journal "Regional Festnik Vostoka»,
- annual "Open day", job fair at the University,
- design of information stands that contain information about the University's specialties, excerpts from the admission rules of the S. Amanzholov EKSU in Russian and Kazakh languages,
- publication and distribution of an advertising and information booklet, preparation of

a video about the University, departments,

- production of image products with the logo of S. Amanzholov EKSU.

Faculty and students of the University systematically inform the General public about the activities of the S. Amanzholov EKSU through publications in the media and social networks.

The University actively conducts activities aimed at improving the professional competence of teachers in the region. In addition, teachers of accredited educational institutions annually participate as a jury in regional competitions of school and student projects, city and regional subject Olympiads, etc.

Information about the discipline, its goals, the composition of the subject, assessment procedures, passing scores and educational Opportunities provided to students are given in the syllabuses of disciplines that are available to students in the systems <http://euniver.vkgu.kz> and Moodle, on the official website of the University in the "Education" section: <https://vkgu.kz>.

Analytical part

The Commission notes the systematic work on placing information on the site, which allows for transparency of activities. EEC notes that full information about teachers participating in the implementation of accredited programs is available on the Institute's website. However, information on the site is not always presented in all three languages. Up-to-date information is not always provided.

The University provides an active media presence in the region, takes part in explaining the President's Messages and government programs, and distributes up-to-date information in educational programs.

The University fully implements external evaluation procedures within the framework of accredited programs and takes an active part in the national EP rating among universities in Kazakhstan, consistently being among the top ten Republican universities participating in the rating. Information-analytical system of the University ensures continuous monitoring of activities of the EP, focused on customer satisfaction EP, the evidence of feedback or response to queries of students and stakeholders EP.

Strengths / Best practices:

- publication of objective and up-to-date information on the expected learning outcomes of implemented educational programs.
- Publication of objective and up-to-date information on qualifications that will be assigned at the end of the educational program.
- the management has provided a variety of ways to disseminate information.
- the guide informs the public about supporting and explaining the national Development programs of the country and the system of higher and postgraduate education.

Recommendation of the EEC

The management of the University and the EP in accordance with the program of multilingualism to provide information on the site in three languages in the context of the EP.

Publication on EKSU's own web resource.kz of the audited financial statements by EP.

Conclusions of the EEC on the criteria for the Standard "Public Information" for EP 5B011100/6B01501 - "Informatics", 5B070300 /6B06102 - "Information systems", 6M011100/7M01501 - "Informatics", 6M060200 /7M06101 - "Informatics": strong – 5, satisfactory – 8.

6.10 Standard "Standards in the context of individual specialties"

Evidence part

Each of the EP submitted for accreditation has its own uniqueness.

The uniqueness of the Development of EP 7M01501 /6M011100 - "Informatics" is the focus of the model on solving problems of quality control of training by including the Development of innovative assessment tools (LMS tasks) in the content of the discipline. The

purpose of the EP is to train competent teachers in computer science who are able to organize the educational process in a multilingual environment, taking into account regional priorities in education, and who have research skills to improve the national education system.

EP 6B01501 / 5B011100 - "Informatics" is different

- highly qualified staff of teaching staff (the staff of the department has practitioners with experience teachers who speak three languages (Kazakh, Russian and English);

- elective disciplines that are taught only in this university within the EP;

- Laboratories of Digital Technologies and Modeling and the National Research Laboratory for Shared Use (NSLCU);

- Since 03.12.2015, a branch of the department has been Opened and Operates at 2 enterprises of practice bases: 1) MSOE "Station of young technicians" of the Akimat of Ust-Kamenogorsk; 2) MSI "Educational and production plant",

- implementation of dual training at MSI "Training and Production Plant"; MSI "Secondary School No. 20"

- taking into account the professional requirements for a specialist in the labor market and the requirements of potential employers, contracts have been concluded. By 5B011100 / 6B01501

- "Informatics"- MSI "School-Lyceum No. 3 named after Sh. Ualikhanov", MSI "Secondary School No. 42", MSI "Secondary School No. 16 named after Zaki Akhmetov", MSI "Secondary School No. 20 named after Akhmet Baitursynov", MSI "Secondary School No. 15", LLP "STEM" center of the educational center "Y port", MSI "Secondary School No. 46"

- On EP 6B01501 / 5B011100 - "Informatics" received feedback from MSI "Educational and production plant", MSI "School-Lyceum No. 3 named after Sh. Ualikhanov", MSI "Secondary School No. 39", MSI "East Kazakhstan Humanities College", Altai State University (Barnaul, RF).

- within the framework of the EP, specialists from production are invited: Gabitova Zh. (Secondary school number 20), c.p.s. Iskakov B.A. (MSI "Training and Production Plant" of the Akimat of Ust-Kamenogorsk).

- training of future teachers of informatics according to EP 6V01501 / 5V01110) - "Informatics" in the regional center is carried out only by EKSU named after S. Amanzholov, which Develops the traditions of training pedagogical personnel of the Ust-Kamenogorsk Pedagogical Institute, on the basis of which the university was created,

EP contains disciplines taking into account the peculiarities of the East Kazakhstan region (minor).

The uniqueness of the Development of EP 5B070300 / 6B06102 - "Information Systems" is provided with a highly professional staff in the profile of the program (4 PhDs and 2 Candidates of Technical Sciences, of which 2 teachers are winners of the Republican competition "The Best University Teacher"). At the same time, 3 disciplines are taught by specialists from production within the framework of dual education. It is the students of this EP who are involved in the areas of scientific research of the laboratory of digital technologies and modeling with «Asia AUTO» JSC. For example, a 4th year student of EP 6V06102 - "Information Systems" (5B070300 - "Information Systems") R. Mukhamzharov carries out his thesis project "Application of data mining methods for predicting failures of car parts".

Within the framework of this EP, 2 levels of continuing education are implemented: bachelor's - master's degree, elements of dual education in the study of disciplines "Administration of Operating systems" (LLP "Rating"), "Organization of research work with students" (MSI "Station of young technicians" of the city administration . Ust-Kamenogorsk), "Architecture of computer systems" (MSI "Training and production plant" of the Akimat of Ust-Kamenogorsk).

According to EP 5B070300 / 6B06102 - "Information Systems"- East Kazakhstan Regional Scientific and Practical Center "Daryn", State Institution "Department for the coordination of employment and social programs of the East Kazakhstan region", «Bar Association of the East Kazakhstan region "Ust-Kamenogorsk, MSI "Educational and production

plant", East Kazakhstan branch "Republican center of legal information" of the Ministry of Justice of the Republic of Kazakhstan, EC FAO "Kazpost", «Information Security Center LLP», «UKMontazh-service» LLP, Branch of ATF Bank JSC, Ust-Kamenogorsk, MSOE "Station of young technicians" of the Akimat of Ust-Kamenogorsk city, MSI "East Kazakhstan Oblast Children's Village" of the Education Department of East Kazakhstan region, LLP "Nurly Sayakhat", JSC "National Center for Expertise and Certification", East Kazakhstan region specialized lyceum "BILIM-INNOVATSIYA" for gifted children in Ust-Kamenogorsk, LLP "Rating", State Institution "Akim Machinery of Ulan District", Department of Information Technology and Monitoring of Public Services, LLP "East-Asia NT plus", State institution "Office of archives and documentation of the East Kazakhstan region", Regional newspaper "Didar", Department of Tourism and Foreign Relations of the East Kazakhstan region.

On EP 6B06102 (5B070300) - "Information Systems" received feedback from JSC "Kazpost", MSOE "Station of young technicians", LLP "Olfomological Center" Ust-Kamenogorsk, reviews for graduation work - MSOE "Station of young technicians", Department of Information Technologies of the branch of JSC "National Center for Advanced Studies" Orleu "in East Kazakhstan region, NIS School of Chemistry and Biology in Ust-Kamenogorsk.

Within the framework of the Bachelor's Degree Program, specialists from production are invited: Ospanov D., (LLP "Rating"), Zharkembaev E.K. (MSI "Station of young technicians" of the Akimat of Ust-Kamenogorsk), c.p.s. Iskakov B.A. (MSI "Training and Production Plant" of the Akimat of Ust-Kamenogorsk).

EP contains disciplines taking into account the peculiarities of the East Kazakhstan region (minor).

The working curriculum of EP 6M011100 / 7M01501 - "Informatics" includes disciplines in the direction of solving quality control problems in the education system (by creating evaluation tools): "Diagnostics in teaching using IT", "Web-technologies for monitoring the quality of education."

Enterprises of the city and region took part in the Development and reviewing, feedback was received from JSC "Kazpost", East Kazakhstan scientific and methodological center for the Development of giftedness and additional education "Daryn", D. Serikbayev East Kazakhstan State University, from Altai State University (Barnaul, RF).

The uniqueness of the EP "6M060200 / 7M06101 - "Informatics" is determined

- research areas of teaching staff in the field of EP, including models and methods of intellectual analysis, statistical processing of natural language, cryptology. From the 2018-2019 academic year, within the framework of this EP, a joint double-diploma education program is being implemented with Altai State University (Russia).

- EP contains disciplines taking into account the peculiarities of the East Kazakhstan region (minor);

- Laboratory of Digital Technologies and Modeling;

- EP book supply,

- On EP 7M06101 / 6M060200 - "Informatics" received reviews from the East Kazakhstan scientific and methodological center "Daryn" ", JSC "Kazpost" of Ust-Kamenogorsk, Altai State University (Barnaul, RF).

Accredited EP presuppose compulsory knowledge and building their own professional activities based on knowledge in the field of ICT. Therefore, theoretical training in the field of various areas of ICT is a mandatory component of the training of bachelors and masters of education. The specified professional competencies and knowledge requirements of students are reflected in the MEP EP and in the graduate model for each EP. The EP's management demonstrated knowledge of the main trends in ICT renewal and, in accordance with these trends, concentrated its activities on the following main directions of education Development:

- ensuring literacy of EP graduates in the field of information technology,

- formation of practical skills in the field of ICT,

- ensuring the readiness of graduates to work in large and medium-sized companies,

- Development of an inclusive culture and professional competencies, etc., carried out the procedure for reviewing the Development of existing EP (modular curricula, work programs, syllabuses, etc.):

For each type of practice, the teachers of the department, in accordance with the Rules for organizing and conducting professional practice and the rules for determining organizations as bases for practices, have developed and approved working curricula and assignments for the educational practice of students in specialties with methodological instructions for their implementation.

Analytical part

Based on the results of the analysis, members of the EEC came to the conclusion that teaching in accredited educational programs is based on the achievements of science and practice in the field of specialization.

The Commission was presented with evidence-based information on the existence of a practice-oriented nature of education, which allows the formation of the necessary professional competencies of graduates.

Information about the types of practices and related aspects is presented and confirmed by facts, the main skills and abilities acquired as a result of training are indicated.

During interviews with students, alumni and employers, a prEPosal was made to strengthen the practice-orientedness of the offered courses. In this regard, it is necessary to invite more often practitioners from enterprises, to Develop elements of dual education in senior courses.

Despite the fact that some EPs have their branches at the bases of enterprises, they are not enough.

The Commission notes that despite the fact that the EP "5B011100 / 6B01501- Informatics", "5B070300 / 6B06102-Information Systems" are unique, it was possible to improve the content of the EP. It was possible to introduce additional elective courses in this direction.

A survey of students showed that 98.9% of the surveyed students are completely satisfied with the overall quality of curricula and the quality of teaching at the university, 1.1% of students are partially satisfied. Thus, the overall satisfaction with the educational process is 99.1%.

Strengths / Best Practice:

in the direction of "Education":

-EP management demonstrated the presence in the program of disciplines that teach innovative teaching methods and training planning, incl. interactive teaching methods, teaching methods with high involvement and motivation of learners.

in the direction "Information and communication technologies":

- EP should include disciplines and activities aimed at gaining practical experience and skills in the specialty in general, major disciplines

-the teaching staff involved in the education program includes, as full-time teachers, ICT practitioners.

EEC recommendations

To revise the content of disciplines for EP 5B011100 / 6B01501 - "Informatics", 5B070300 / 6B06102 - "Information systems" taking into account the latest achievements of science and technology, and the transition of Kazakhstan to the digital economy.

Continue activities to ensure practice-orientation in order to instill practical experience and skills in students in all accredited educational programs.

The EP management should provide for the possibility of Opening a branch of departments on the basis of enterprises for conducting individual classes or whole disciplines of specialization.

To recommend for all accredited EPs an annual renewal of licensed packages of applied data processing programs used in the educational process.

Conclusions of the EEC on the criteria for the standard "Standards in the context of individual specialties":

in the direction of "Education": strong - 4, satisfactory - 2;

in the direction "Information and communication technologies": strong - 2, satisfactory

- 3.

(VII) REVIEW OF STRENGTHS / BEST PRACTICES FOR EACH STANDARD

Standard «Management of the educational program»

- availability of a published academic policy of the University, which presents a set of measures, rules and procedures for effective management of educational activities aimed at improving the quality of education;

- the process of developing a modular educational program involves the most interested participants in the educational process: employers, students, graduates, teachers, which is clearly regulated in the structure of the MOE;

- the presence of the mechanism of formation and regular revision of the Development plan of the EP, are regulated by the Provision of the project office, the activities of project committees EP ensure transparency and effective handling lifecycle management;

- reflected in the goals and objectives of the EP the specifics of the training EP, focus on the needs of the labour market, the implementation of the strategic objectives of Development of higher and postgraduate education demonstrate the uniqueness of EP;

- the University ensures the participation of representatives of interested persons in the composition of the collegial management bodies of the University,

- the management has demonstrated the regularity and transparency of the procedures for managing and maintaining the EP at all stages of its implementation, which allows monitoring and improving results at any stage of the EP implementation;

- managers of accredited companies have been trained in management programs in education.

Information «Management and reporting standard»

- EP management makes decisions based on facts;

- determined the frequency, forms and methods of evaluation of the management of EP;

- the University has a mechanism for measuring the degree of satisfaction with the needs of teaching staff, staff and students in the framework of the EP.

- the University takes into account the information expected to be collected and analyzed in the framework of the EP on the dynamics of the contingent.

- the University takes into account information intended for collection and analysis within the framework of the EP on the level of academic performance, achievements of students and their expulsion.

- the University takes into account the information expected to be collected and analyzed in the framework of the EP on students ' satisfaction with the implementation of the EP and the quality of education at the University.

- the University has shown the availability of educational resources and support systems for students.

- the University confirmed the implementation of procedures for processing personal data of students, teaching staff, and employees based on their documentary consent.

Standard «Development and approval of the educational program»

- define and document procedures for the Development of EP and their approval;

- a clear definition and explanation of the qualifications obtained at the end of the EP;

- Development and approval of MOS and their Development plans.

Standard «Continuous monitoring and periodic evaluation of educational programs»

- monitoring and periodic evaluation of the EP provides for the changing demands of society and professional environment;

- monitoring and periodic evaluation of EP provides the load and progress of students;

monitoring and periodic evaluation of EP provides the expectations, needs and satisfaction of students learning by EP.

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

- the management of the EP ensures respect and attention to different groups of students and their needs;

- the EP guidelines provide for the use of various teaching and learning methods;

- the management of the EP has demonstrated the existence of a mechanism to support the autonomy of students with simultaneous guidance and assistance from the teacher,

- evaluators are familiar with modern methods of evaluating learning outcomes and regularly improve their skills in this area.

Standard «Students»

- the University has a policy of forming a contingent in the context of EP from admission to graduation;

- the EP management determines the maximum size of the group when conducting seminars, practical classes, and laboratory classes;

- the EP management has a policy of forecasting the number of state grants;

- the management of the EP conducts a policy of analyzing the available material and technical, information resources, and human resources;

- the user analyzes the potential of social conditions for students;

- the management has demonstrated its readiness to provide students with places of practice, promote employment of graduates, and maintain communication with students.;

- it is possible to provide EP graduates with documents confirming their qualifications.

Standard «Faculty»

- the University has an objective and transparent personnel policy that includes hiring, professional growth and Development of staff, ensuring the professional competence of the entire staff;

- the personnel potential corresponds to the Development strategy of the PO and the specifics of the EP;

- the management of the EP is aware of the responsibility for its employees and provides them with favorable working conditions;

- the University provides Opportunities for career growth and professional Development of the teaching staff of the EP.

Standard “Educational resources and support systems for students and undergraduates”

- the University evaluates research results, graduation papers, and dissertations for plagiarism.

Standard «Public Information»

- publication of objective and up-to-date information on the expected results of training implemented by the EP within the framework of educational programs;

- Publication of objective and up-to-date information on qualifications that will be assigned at the end of the educational program;

- the management has provided a variety of ways to disseminate information;

- the guide informs the public about supporting and explaining the national Development programs of the country and the system of higher and postgraduate education.

Standard " Standards in the context of individual specialties»

in the direction of "Education»:

-the EP management demonstrated that the program includes disciplines that teach innovative teaching methods and training planning, including interactive teaching methods, teaching methods with high involvement and motivation of students.

In the direction of " Information and communication technologies»:

The EP should include disciplines and activities aimed at gaining practical experience and skills in the specialty as a whole in the main disciplines:

-the teaching staff involved in the education program includes full-time teachers and practitioners in the field of ICT.

(VIII) REVIEW RECOMMENDATION FOR QUALITY IMPROVEMENT

Standard «Management of the educational programme»

For EP "5B011100/6B01501-Informatics", "5B070300/6B06102-Information systems", "6M011100 /7M01501-Informatics", "6M060200 /7M06101-Informatics": a risk management policy should be developed taking into account all factors of the external and internal environment of the University.

Conduct an analysis of innovation management within the framework of accredited PLoS, including the implementation of innovative proposals.

Standard «Information Management and Reporting»

Regularly update information on the website of the University and faculties in three languages.

Develop and implement a long-term admission plan for students in EP 7M01501-Informatics.

Standard «Development and approval of the educational programme»

To study the possibilities of professional certification of graduates through leading centers and conduct targeted work of EP managers to familiarize and prepare students for certification procedures.

Attention should be paid to the use of informal forms of recognition of students' achievements (through the Development of their own online mass courses and automatic assessment of intermediate certification according to mooc certificates of leading universities in the country and the world).

Develop and implement a plan to introduce elements of dual training in accredited schools.

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

To strengthen the practical orientation of academic disciplines by conducting classes on the basis of branches of departments.

Improve the communication of stakeholders about any changes in the EP by activating work in social networks, introducing digital technologies, etc.

Develop criteria for evaluating all types of educational activities of students (practice, laboratory work, all types of Independent work of students and undergraduates).

Standard «Student-Centered learning, teaching and assessment of academic performance»

To attract students for all accredited programs, strengthen career guidance by creating a Digital School.

Create conditions for students to work Independently in the hostel and provide them with the Opportunity to work on a personal computer. You should purchase several additional computers or laptops for the Dorm.

Develop and implement your own methodological research (for example, in the form of teaching AIDS) in the field of teaching elective subjects EP "6M011100 /7M01501-computer Science", "6M060200 /7M06101-computer Science".

Standard «Students»

Expand the range of programs and increase the number of students traveling within the framework of internal and external academic mobility in all accredited programs.

Conduct a series of round tables with recent graduates to exchange experience and integrate them into the alumni Association.

Standard «Teaching staff»

Continue to work on the Development of academic mobility of teaching staff (external and internal) in all accredited schools.

Develop and implement mass Open online courses in basic and core disciplines in the process of implementing the EP.

Develop and implement a long-term plan for the Development of international and national academic mobility of teaching staff (incoming and outgoing), for example, with universities in the top 500 of the QS rating and the top 10 of Kazakhstan ratings.

Develop author's training programs for testing and implementation with the aim of further exchange of experience in the framework of academic mobility programs.

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

Ensure uninterrupted Operation of Wi-Fi in all buildings of the University. Continue to improve the material and technical resources and IT infrastructure of the graduate departments.

Consider expanding the space of classrooms and recreation rooms for students.

To ensure the needs of different groups of students to replenish the Fund of library resources literature in the English language.

Standard «Public Information»

The management of the University and the EP in accordance with the program of multilingualism to provide information on the site in three languages in the context of the EP.

Publication on VKGU's own web resource.kz of the audited financial statements by EP.

Standard «Standards in the context of individual specialties»

Review the content of disciplines for the EP "5B011100/6B01501-Informatics", "5B070300/6B06102-Information systems", taking into account the latest achievements of science and technology, and the transition of Kazakhstan to the digital economy.

Continue activities to ensure practical orientation in order to instill students with practical experience and skills in all accredited educational programs.

The management of the EP should provide for the possibility of Opening a branch of departments on the basis of enterprises for conducting individual classes or entire disciplines of specialization.

Recommend annual updating of licensed packages of data processing applications used in the educational process for all accredited educational institutions.

Evaluation table "PARAMETERS OF A SPECIALISED PROFILE"
Conclusion of the External Expert Commission on the results of the evaluation of educational programs «5B011100 /6B01501-Informatics», «5B070300 /6B06102-Information systems», «6M011100 /7M01501-Informatics», «6M060200 /7M06101-Informatics»

№	№	Criteria for evaluation	Position of the educational organization			
			Strong	Satisfactory	Assumes improvements	Unsatisfactory
Standard «Management of the educational program»						
1	1.	The university must have a published quality assurance policy.	+			
2	2.	A quality assurance policy should reflect the link between research, teaching and learning.	+			
3	3.	The university should demonstrate the development of a culture of quality assurance, including in the context of EP	+			
4	4.	A commitment to quality assurance should apply to any activity carried out by contractors and partners (outsourcing), including in the implementation of joint double-degree education and academic mobility		+		
5	5.	The EP management ensures transparency in the development of the EP development plan based on an analysis of its functioning, the actual positioning of the university and its focus on meeting the needs of the state, employers, interested individuals and students.	+			
6	6.	EP management demonstrates the functioning of the mechanisms for forming and regularly reviewing the EP development plan and monitoring its implementation, assessing the achievement of learning goals, meeting the needs of students, employers and society, making decisions aimed at continually improving EP	+			
7	7.	EP management should involve representatives of stakeholder groups, including employers, students and faculty members, in the formation of the EP development plan.		+		
8	8.	EP management must demonstrate the individuality and uniqueness of the EP development plan, its consistency with national development priorities and the development strategy of the educational organization		+		

9	9.	The university must demonstrate a clear definition of those responsible for business processes, within the framework of the EP, the unambiguous distribution of the duties of the staff, and the delineation of the functions of collegial bodies.		+		
10	10.	EP management must provide evidence of the transparency of the educational program management system.		+		
11	11.	EP management must demonstrate the successful functioning of the internal quality assurance system of the EP, including its design, management and monitoring, their improvement, and decision-making based on facts.	+			
12	12.	EP management must manage risk		+		
13	13.	EP management should ensure the participation of representatives of interested parties (employers, teaching staff, students) in the collegial bodies of the educational program management, as well as their representativeness in making decisions on educational program management		+		
14	14.	The university should demonstrate innovation management in the framework of the EP, including the analysis and implementation of innovative proposals.		+		
15	15.	EP management should demonstrate evidence of openness and accessibility for students, faculty, employers and other interested parties.		+		
16	16.	EP management must be trained in education management programs	+			
17	17.	EP management should strive to ensure that the progress made since the last external quality assurance procedure was taken into account in preparation for the next procedure.		+		
Total standard			7	10	0	0
Standat «Information Management and Reporting»						
18	1.	The university should ensure the functioning of a system for collecting, analyzing and managing information based on the use of modern information and communication technologies and software.	+			
19	2.	EP management must demonstrate the systematic use of processed, adequate information to improve the internal quality assurance system.	+			
20	3.	Within the framework of the EP, there should be a system of regular reporting, reflecting all levels of the structure, including an assessment of the effectiveness and efficiency of the departments and departments, scientific research.		+		
21	4.	The university should establish the frequency, forms and methods of evaluating the management of EP, the activities of collegial bodies and structural divisions, senior management, and the implementation of scientific projects.	+			

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

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

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

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

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

		educational organization.				
96	7.	The university should strive to ensure that the educational equipment and software used to master educational programs are similar to those used in the relevant industries.		+		
97	8.	The university must ensure compliance with safety requirements in the learning process.		+		
98	9.	The university should strive to take into account the needs of various groups studying in the context of EP (adults, workers, foreign students, as well as students with disabilities).		+		
99	10.	EP management must demonstrate the adequacy of material and technical resources and infrastructure.		+		
Total standard			3	7	0	0
Standart «Public Information»						
		Information about the possibility of awarding a qualification at the end of the EP;				
100	1.	Information about teaching, training, and evaluation procedures;	+			
101	2.	Information about passing points and educational opportunities provided to students;	+			
102	3.	Information about graduate employment opportunities.	+			
103	4.	The management of the EP should use a variety of ways to disseminate information, including the media, information networks to inform the General public and interested persons	+			
104	5.	public awareness should include support and explanation of the country's national development programs and the system of higher and postgraduate education.		+		
105	6.	The University must publish audited financial statements on its own web resource, including in the context of EP.		+		
106	7.	The University must demonstrate the reflection on the web resource of information that characterizes the University as a whole and in the context of EP.		+		
107	8.	An important factor is the availability of adequate and objective information about teaching EP, in the context of personalities.		+		
108	9.	An important factor is to inform the public about cooperation and interaction with partners within the framework of the EP, including scientific consulting organizations, business partners, social partners and public organizations		+		
109	10.	The University should post information and links to external resources based on the results of external evaluation procedures.		+		
110	11.	An important factor is the participation of the University and implemented EP in a variety of external evaluation procedures.		+		

111	12.	The information published by the University within the framework of the EP must be accurate, objective, and up-to-date and must include: Implemented programs, indicating the expected learning outcomes;		+		
112	13.	Information about the possibility of awarding a qualification at the end of the EP;	+			
Total standard			5	8	0	0
Standards in the context of individual specialties						
EDUCATION						
		The management of the EP must demonstrate that graduates of the program have theoretical knowledge in the field of psychology and skills in communication, analysis of personality and behavior, methods for preventing and resolving conflicts, and motivation of students:				
113	1.	The management of the EP must demonstrate the literacy of graduates of the program in the field of information technology.		+		
114	2.	The management of the EP must demonstrate the availability of disciplines that teach in. teaching methods and training planning, including interactive teaching methods, teaching methods with high involvement and motivation of students (games, case studies/situations, multimedia tools)	+			
115	3.	The EP management must demonstrate that students have the ability to teach self-learning skills	+			
116	4.	The EP should focus on different types of practices: - attending lectures and classes held by teachers; - conducting special seminars and discussions on the latest teaching methodologies and technologies; - within the framework of the program, students must have the opportunity to attend at least one discipline in their field of specialization taught by a practitioner		+		
117	5.	Within the framework of the EP, students should be provided with knowledge and skills of systems and methods of pedagogy in the world, as well as knowledge in the field of education management.	+			
118	6.	The management of the EP must demonstrate that graduates of the program have theoretical knowledge in the field of psychology and skills in communication, analysis of personality and behavior, methods for preventing and resolving conflicts, and motivation of students:	+			
Total by standard						
NATURAL SCIENCES, AGRICULTURAL SCIENCES, TECHNICAL SCIENCES, AND TECHNOLOGIES						
		Educational programs in the areas of "Natural Sciences", "Technical Sciences and technologies" , such as "Mathematics", "Physics", "Information systems", etc., must meet the following requirements:				

119	1.	In order to familiarize students with the professional environment and current issues in the field of specialization, as well as to acquire skills based on theoretical training, the educational program should include disciplines and activities aimed at obtaining practical experience and skills in the specialty in General and in the profile disciplines in particular, including: - excursions to enterprises in the field of specialization (factories, workshEPs, research institutes, laboratories, training and experimental farms, etc.), - conducting individual classes or entire disciplines at the enterprise of specialization, - conducting seminars to solve practical problems relevant for enterprises in the field of specialization, etc.	+			
120	2.	The teaching staff involved in the education program should include full-time teachers with long-term experience as full-time employees in enterprises in the area of specialization of the education program.		+		
121	3.	The content of all EP disciplines should be based in one way or another and include a clear relationship with the content of fundamental natural sciences, such as mathematics, chemistry, physics.		+		
122	4.	EP management should provide measures to enhance practical training in the field of specialization.		+		
123	5.	EP management must provide training for students in the use of modern information technologies.	+			
Total by standard			6	5	0	0
IN TOTAL			40	81	2	0