«АККРЕДИТТЕУ ЖӘНЕ РЕЙТИНГТІҢ ТӘУЕЛСІЗ АГЕНТТІГІ» КЕМ

НУ «НЕЗАВИСИМОЕ АГЕНТСТВО АККРЕДИТАЦИИ И РЕЙТИНГА»

INDEPENDENT AGENCY FOR ACCREDITATION AND RATING

REPORT

on the results of the work of the external expert evaluation committee for compliance with the requirements of standards of specialized accreditation of educational programs

5B070300 -»Information Systems"
6M070300-»Information Systems"
5B070400 - “Computer Engineering and Software”
6M070400 - “Computer Engineering and Software”

KORKYT ATA KYZYLORDA STATE UNIVERSITY

SITE VISIT DATES: from February 19 to February 22, 2019

INDEPENDENT AGENCY FOR ACCREDITATION AND RATING
External expert committee

Addressed to
IAAR Accreditation
Council

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in the period from February 19 to February 22, 2019

Kyzylorda, 2019

CONTENT

(I) LIST OF SYMBOLS AND ABBREVIATIONS

EP	- educational program
GD	- general education
RO	- registrar's office
TC	- typical curriculum
CSIT	- Center for Scientific Information Technologies
SRW	-Scientific research work
QMS	- Quality Management System
RSE	- National Scientific Academic Republic of Kazakhstan
OREM	- On the Rights of Economic Management
F	- faculty
EDMS	- electronic document management system
mass media	- media
NAS RK	- National Academy of Sciences of the Republic of Kazakhstan
KSU	- Kyzylorda State University
ISOS	- international standard of the International Organization for Standardization
AMS	- accounting of the movement of students
ECD	- educational complex of the discipline
IWST	- independent work of a student with a teacher
UNT	- unified national testing
CT	- complex testing
LLP	- limited liability partnership
AO	- Joint-Stock Company
SUE	- state utility enterprise
HE	- higher education
WI	- work instruction
SRW	- student research work
SSC	- student scientific circles
EEEA	- external evaluation of educational achievements
ISC	- intermediate state control
SAC	- State Attestation Commission
WC	- working curriculum
NILE	- research laboratory
Scientific research institute	- Research Institute
RC	- research Center
Emergency	- emergencies
SMCU	- Scientific and Methodological Council of the University
SMBF	- scientific and methodical bureau of faculties
ISP	- individual study plan
QED	- catalog of elective disciplines
ICOE	- individual code of students
DE	- distance education

(II) INTRODUCTION

In accordance with the order No. 12-19-OD dated January 29, 2019, the Independent Agency for Accreditation and Rating from February 19 to February 22, 2019, an external expert committee assessed compliance of educational programs 5B070300, 6M070300-»Information Systems", 5B070400, 6M070400-»Computing and software»Kyzylorda State University. Korkyt Ata to the standards of specialized accreditation of the IAAR (No. 10-17-OD of February 24, 2017, fifth edition).

The report of the external expert commission (WEC) contains an assessment of compliance with the activities of Kyzylorda State University. Korkyt Ata in the framework of specialized accreditation criteria for the IAAR, recommendations of the EEC to further improve the parameters of a specialized profile.

The composition of the EEC:

Chairman of the Commission - Stybayev Gani Zhasymbekovich, Ph.D., Professor, Kazakh Agrotechnical University. S.Seifullin (Astana);

Foreign expert - Simaeva Irina Nikolaevna, doctor of pedagogical sciences, professor, I. Kant Baltic Federal University, expert of the "Guild of experts in the field of vocational education»(Kaliningrad, Russian Federation);

Foreign expert - Prof. Dr. Astrid Beck, Esslingen University of Applied Sciences (Hochschule Esslingen), ACQUIN expert (Esslingen am Neckar, Germany);

Expert - Isakhova Parida Bakirovna, Doctor of Economics, professor, Almaty Management University (Almaty);

Expert - Sharipov Bakhyt Zhaparovich, d.ped.n, Ph.D., professor, Free International University of Information Technologies (g .a lmaty);

Expert - Madieva Galia Bayanzhanovna to ed.n it dry., Associate Professor, Kazakh National University. Al-Farabi (Almaty);

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

Expert - Safarov Ruslan Z., Candidate of Chemical Sciences, Eurasian National University. L.N. ENU (Astana g.);

Expert - Mutallyapova Shynar Eleusizovna, Ph.D., Associate Professor, Kazakh Agrotechnical University. S.Seifullin (g.A camp);

Expert - Zharkenova Svetlana Bahytovna, k.yu.n, Associate Professor, Eurasian National University.. L.N. Gumilyov (r . And the camp);

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

Expert - Kalshabekova Elmira Nurlybaevna, Ph.D., Associate Professor, South Kazakhstan State University. M.Auezova (Sh. Shymkent);

Expert - Duskayev Kasym Koyanbaevich to .T eh.n., Associate Professor, Kazakh National University. Al-Farabi (Almaty);

Expert - Nurabayev Dowlen Myrzaevich, Ph.D., Associate Professor, Taraz State University named after M.Kh.Dulati (Taraz);

The employer is Mishukova Natalya Valentinovna, head of Kindergarten Syr Balazhan LLP, director of the Kyzylorda Oblast branch of the Kazakhstan Association of Pre-School Organizations, member of the Council for the Protection of the Rights of Entrepreneurs at the NPT Atameken (Kyzylorda);

Employer - Nurkozhaev Bolat Zholtaevich, member of the Council on the protection of the rights of entrepreneurs and anti-corruption RPP Kyzylorda (Kyzylorda);

Student - Serikuzy Aruzhan, member of the Alliance of Students of Kazakhstan of Kyzylorda region, 3rd year student of the educational program "5B050600-Economics", Humanitarian-Technical Institute " Akmeshit»(Kyzylorda);

Student - Mukhanbetia Saghynysh Makhsatkyzy, a member of the Alliance of Students of Kazakhstan of Kyzylorda region, a student of the 3rd year of the EP»5B090500-Social Work", Humanitarian-Technical Institute»Akmeshit»(Kyzylorda);

Student - Amantai B ақbergen Bauyrzhanuly, a member of the Alliance of Students of Kazakhstan of Kyzylorda region, a student of the 3rd year of the special education»5B070400-Computing equipment and software", Humanitarian-Technical Institute»Akmeshit»(Kyzylorda);

Student - Әnuarbek Nursultan, a member of the Alliance of Students of Kazakhstan of Kyzylorda region, 3-year student of the EP»5B010800-Physical Culture and Sports", University of Bolashak (Kyzylorda);

Student - P irnazar Gүlzat, a member of the Alliance of Students of Kazakhstan Kyzylorda region, 2nd year student of EP»5B011300-Biology", University»Bolashak»(Kyzylorda);

Student - Yerlen Erasyl Talgatuly, a member of the Alliance of Students of Kazakhstan of Kyzylorda region, a student of the 1st course of EP»5B072900-Construction", University»Bolashak»(Kyzylorda);

Student - Well nisov Nursultan Kairatuly, 3-year student of the specialty Agronomy, Kyzylorda Agrarian-Technical Higher College. I. Abdukarimov (Kyzylorda);

The observer from the Agency - Kanapyanov Timur Erbolatovich, Dr. PhD, IAAR head of the international projects and communication with the public

(III) REPRESENTATION OF EDUCATION ORGANIZATION

Republican state enterprise on the right of economic management»Korkyt Kyzylorda State University Ata of the Ministry of Education and Science of the Republic of Kazakhstan»(hereinafter - Korkyt KSU Ata) was formed on the basis of Kyzylorda Korkyt Humanitarian University Ata and Kyzylorda Polytechnic Institute named after I. Zhakhayev (Decree of the Government of the Republic of Kazakhstan No. 256 of March 24, 1998).

KSU named Korkyt Ata carries out its activities on the basis of the Laws of the Republic of Kazakhstan»On Education",»On Science", the Development Strategy»Kazakhstan - 2050: a new political course of the established state", the State Program for the Development of Education and Science of the Republic of Kazakhstan for 2016-2019, other legal acts of the Ministry of Education and science of the Republic of Kazakhstan, regulating relations in the field of higher and postgraduate education, is guided by the Charter of the University, Academic Policy, the Strategic Development Plan of KSU named after Korkyt Ata for 2017–2021 (approved at a meeting of the Supervisory Board on 11.09.2017, Minutes No. 3).

The mission of the university is tEPrepare competitive and in-demand specialists with higher and postgraduate education, focused on solving the issues of industrial and innovative development in all sectors of the economy of the Kyzylorda region and the Republic of Kazakhstan.

Strategic vision: Korkyt Kyzylorda State University Ata is an innovative entrepreneurial university with high positions in national rankings, which is included in the world ranking of universities.

Educational activities of Korkyt KSU Ata for undergraduate, graduate and PhD doctoral programs is carried out on the basis of a perpetual license (No. 12019394), issued by the Committee on the Control of Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan on December 11, 2012. There are 30 departments in

7 faculties that train specialists in 64 undergraduate majors, 30 graduate majors, 9 PhD doctoral specialties .

Material and technical base of the university includes 10 academic buildings, 5 hostels, Palace of students, 7 canteens, sports complex»Saihun»military training ground, a library with reading rooms 6.

Currently in Korkyt KSU Ata has 4,611 undergraduates, 405 undergraduates, and 43 doctoral students. The educational process is carried out by 493 teachers, including 18 doctors of science, 17 PhD doctors, 198 candidates of science, 183 masters.

The University publishes the scientific journal»Bulletin of Korkyt KSU Ata», the high-circulation newspaper Syr tlegi is published.

KSU named Korkyt Ata is a member of the European Association of Higher Education Institutions (2005), the Eurasian-Pacific University Network (2005), the Magna Carta of Universities (2005), the Eurasian Association of Universities (2011) and the Association of Asian Universities (2017).).

In 2018 Korkyt Kyzylorda State University Ata entered the top 300 best universities in Eastern Europe and Central Asia according to the international QS University Rankings : Emerging Europe and Central Asia (QS EECA), ranking 273.

According to the results of the National Rating of Demand for High Schools RK-2018, conducted by the Independent Agency for Accreditation and Rating (IAAR), Korkyt Kyzylorda State University Ata is in the TOP-20 of the best universities of the republic, ranking 10th.

According to the National Rating of the Republic of Kazakhstan - 2018, conducted by the Independent Agency for Quality Assurance in Education (NAOKO), Korkyt Kyzylorda State University Ata occupies the 9th place among multi-disciplined universities of the Republic of Kazakhstan.

Training in the accredited EP 5B070300, 6M070300-»Information systems", 5B070400, 6M070400-»Computing equipment and software»is carried out by the department»Computer Science", which is a structural subdivision of the Faculty»Engineering and Ecological".

Training is conducted in full-time and distance forms in Kazakh, Russian and English.

Personnel training in accredited specialties at the department is carried out by 23 full-time teachers, 3 of them are PhD doctors, 8 are candidates of science, which is 48%. from the total staff of the department.

Currently, the contingent of students is:

- on EP 5B070300 - “Information Systems»to undergraduate : full-time education - 94 students, of which a grant - 21, paid - 73, distance learning - 12 (paid). A total of 106 students. According to EP 6M070300- “Information systems»a magistracy - 5, from them grant-3, paid - 2.

- according to EP 5B070400 - “ Computing equipment and software”: full-time education - 47 students, including a grant - 17, paid - 30, distance learning - 22, all are paid. Total 69 students. According to EP 6M070400- “ Computing equipment and software” magistracy - 6, of which grant -5, paid-1.

The department cooperates with educational and industrial institutions of the region and the republic, with which memoranda are concluded. The department has 4 branches in the production: programming school»Grand master», Regional management of digital technologies“ Center for Information Technologies», LLP»KazEnergoEksperstiza», Regional Department of Education (Educational and Methodical Study), IT Lyceum School №3.

KSU named Korkyt Ata among the universities participating in the rating of the IAAR in 2014 took the 2nd place in the specialty undergraduate 5B070400- “Computing equipment and software” and magistracy 6M070400- “Computing equipment and software”.

KSU named Korkyt Ata among the universities participating in the rating of the IAAR in 2015 took the 3rd place in the specialty of magistracy 6M070400- “Computing equipment and software”.

In the ranking of educational programs of universities in Kazakhstan, conducted by NKAOKO in 2016, the EP in the specialty of bachelor's degree 5B070400 - Computer Science and Software»ranked 11th.

In the rating of educational programs of universities in Kazakhstan, conducted by NKAOKO in 2017, the EP took the 15th place in the specialty of bachelor 5B070300 - »Information Systems", the 7th place in the specialty of magistracy 6M070300- »Information Systems".

In the rating of educational programs of universities in Kazakhstan, conducted by NKAOKO in 2017, the EP took the 15th place in the specialty of bachelor 5B070300 - »Information Systems", the 7th place in the specialty of magistracy 6M070300- »Information Systems".

In the ranking of educational programs of universities in Kazakhstan, conducted by NKAOKO in 2018, the EP took the 9th place in the specialty of bachelor 5B070400 - “Computer Engineering and Software”.

Graduates of EP 5B070300, 6M070300 - “Information Systems»are employed in the following organizations: Kyzylorda Oblast Akimat, Kazakhtelecom JSC, Regional Prosecutor's Office, BankCenterCredit JSC, KSU Service and Information Security Department, Handball Club “ Seykhun», Adam-Jean LLP, Lyceum School No. 3, Finance Department (Youth Practice), Forte Bank JSC, City Court (Youth Practice), Transtelecom (Youth Practice), Sber Bank, Kazpost JSC Zhanakorgan district, TOO Anvar, Driving Azamat, BC Babas, Supervision Department in the field of education Kyzylordniskoy area, Trading House»Technodom»Service Center»Tech-Tech»Lyceum boarding»Bi l IM innovation"

Graduates of EP 5B070400 - “Computing equipment and software” work in the following organizations: Kyzylorda Oblast Akimat, Rural District Akimat N. Iliyasov, Syrdarya District, Oncology Hospital of Almaty, RGBrands LLP, Grupp Four LLP, Nay- Mir, IP DekorPlus, JSC NIT, IBS Service LLP, U-FUTURE LLP, Mechta Market LLP Kindergarten Orda, DOS-ORDA IP, Ішкі ister departments, Kazgidromet, ZhSSh “ Zhandos-T», JSC “Caspian Bank”, JSC “ Iliyas»kindergarten, Public Service Center, LLP “ KumkolService», Palace of schoolchildren “Circle of Robotics”, Trading House “ Sulpak», LLP “Virazh”, Trading House»Ж ібек Joly»

The average employment rate of graduates of the last three years (2016-2018) is: for EP 5B070300, 6M070300 - “Information Systems»- 76%, for EP 5B070400 - “Computing equipment and software” - 88.4%. The number of unemployed includes graduates who have continued training in post-graduate professional education programs (magistracy) and undergoing military service in the ranks of the Armed Forces of the Republic of Kazakhstan.

Students participating in academic mobility programs. During the reporting period, under EP 5B070300-»Information Systems»undergraduate - 7 students. According to EP 5B070400-»Computer Science and Softwareobepechenie»Bachelor - 6 students and EP 6M070400-»Computers and Software»graduate - 1.

Research projects: general information on research projects for 3 years. In the 2017-2018 academic year there is a scientific project under the number of the IES, No. AR05134344. Name -»New statements research of actual problems in applied celestial mechanics and astrodynamics .»Applicant - RSE on PVC “KSU named after Korkyt Ata»MES RK. The group of objects of the GNTE - Competition for grant financing for scientific and scientific-technical projects for 2018-2020. The research team - Tureshbaev AT, Ibadullah SI Daurenbekov KK, Bekseitova AB, Nahua A. Tuyakbaev AA, Omarova U.Sh., Mahambaeva IU, Thay The .N., Saparhodzhaev P.

Re-delivery is planned if a new competition of research projects for grant funding is announced . The project was assessed by foreign experts by 27 points out of 32 possible. The project was developed with the involvement of leading scientists of the Institute for Problems of Management of the Russian Academy of Sciences, Lomonosov Moscow State University.

The main directions of the research work of the department and the topics of scientific research of the teaching staff of the EP in the reporting period:

- Network technologies;
- Cloud technologies;
- Management in robotics;
- 3D design;
- Database design;
- Programming in modern programming languages.

Practical implementation of PPP R & D are publications in scientific journals with non-zero impact factor .

During the reporting period, 39 articles of the teaching staff of the academic year were published in scientific journals and publications with a non-zero impact factor . Among them:

SCOPUS - 18 publications in foreign scientific journals with non-zero impact factor, on the G-Global platform - 12, RISC with non-zero impact factor - 6, World Applied Sciences Journal - 3.

During the reporting period, paid courses were conducted on the basis of the Computer Science Department for the purpose of commercialization.

At the department under the guidance of PhD Beketova G.S. in March 2018 it was held a paid course for librarians area, including the University, entitled»Kitapkhana қyzmetkerleri not ақparattyқ biliktilikti arttyru».

Paid courses were conducted in the school-lyceum №3:

- Ibadulla S.I., Nawan A. - “Robotics of negzdderi»,
- Myrzaev R.S., Nawan A. - “C # baғdarlamalalau tilinin negizderi»,
- Turlugulova N.A.- “Ush Alshemdi modeldeu zhene 3D printing».

(IV) DESCRIPTION OF PREVIOUS ACCREDITATION PROCEDURE

Educational programs 5B070300, 6M070300- “Information systems»5B070400, 6M070400- “Computing equipment and software” are accredited to the IAAR for the first time.

(V) DESCRIPTION OF THE SITE VISIT

The work of the EEC was carried out on the basis of the approved Program of the visit of the expert commission on specialized accreditation of Kyzylorda State University. Korkyt Ata in the period from 19 to 22 February 2019.

In order to coordinate the work of the EEC on February 18, 2019, an orientation 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 the acting. rector, vice-rectors, heads of departments, deans, heads of university departments, teachers, students, graduates, employers and employees from

various departments, interviewing and questioning teachers and students. A total of 225 people took part in the meetings (table 1).

Information about the staff and students whEParticipated in the meetings with the EEC IAAR:

Category of participants	amount
And about. rector	1
Vice Rector	3
Heads of departments,	23
Faculty Deans	5
Heads of Chairs	9
Teachers	26
Students	20
Graduates	14
Employers	6
Total	225

During the excursion, the EEC members familiarized themselves with the state of the material and technical base, visited the exhibition hall of the National Research Center»Archeology and Ethnography", the training hall»President and Independent Kazakhstan", the scientific and technical library, the SEYHUN sports complex, hostel No. 5, greenhouse, engineering laboratories:

- Installation and adjustment of cable networks (307 audience, V building),
- Network security (audience 315b, building V),
- Cryptographic systems (310 audience, V building),
- Construction and operation of wireless local Wi-Fi networks (403 audience, V building),
- Robotics (312 audience, V building),
- Cisco Networking Academy (audience 313, building V).

The events planned during the visit of the EECAAAA contributed to familiarizing experts with the EP 5B070300 practice bases - “Information Systems”, 5B070400 - “Computing Machinery and Software”.

At the request of Astrid Beck, a foreign expert, members of the commission visited the following practice bases:

- Kyzylorda branch of NOMAD Insurance Insurance JSC. There was a lecture on the activities of the insurance company and what services it provides;

- One of the first innovative secondary schools in the city - IT School No. 3 was opened on September 10, 2018 - director M.N. Abdykalykova In order to increase the interest of students of the IT-school, students of the specialties 5B070300 - “Information systems”, 5B070400 - “Computers and software” are sent tEPractice;

- Kyzylorda OTD JSC»Kazakhtelecom»-e irektor Kyzylorda Tooms YURDT Dukenbayev SO In each academic year, 10–15 students are trained and gain practical experience in the workplace.

-»Information Technology Center»at the Governor's office of Kyzylorda region in order to support and development of start-up ICT projects, training and testing of 2D and 3D graphics projects laboratory simulations, controls and videEPanels for VR / AR technologies, services coworking center for the development and improvement of technology efficiency of IT projects, conducting training courses in various IT programs, it was decided to create an IT park in the city of Kyzylorda . The IT park includes the following zones: coworking zone, business agreement zone, free zone for services and

recreation, lecture “transform” zone, techno-laboratory on robotics (workshop), individual rooms, development room for web and mobile applications, server and technical area.

- School of programming»Grand master». Director Kuanyshbayev A.Zh. He acquainted with the goals, objectives and directions of the institution, he noted that 10-15 students of specialties 5B070300- “Information systems”, 5B070400- “Computing equipment and software” - practice at the institution. Currently, students of 2-3 courses of these specialties work in the institution at 0.5 staff on the position of»network administrator»and»programmer."

- Also, experts visited the Kyzylorda branch of the RSE»Public Service Center»in the Kyzylorda region. Each year, students are sent in CHS tEProizodstvennuyu practice. Branch Director Kayrullaev AB He said that KSU them .K orkyt Ata guide students tEPass a practical internship. For its part, the institution acquaints students who come tEPractice, first of all with safety regulations, and then with the activities of the institution, with the duties of students. During the internship, university students develop practical skills, demonstrating a high level of knowledge.

EEC members attended the following training sessions;

- on the subject “ Information and communication technologies», the topic “ Human-computer interaction . Fundamentals of Human-Computer Interaction . Ergonomics», type of employment -n projection, 1 course, specialty»5B070300 -Information System», Art. teacher Turlugulova N.A. (audience 315b, building 5);

- on the discipline»C # Middle programm - II», the topic»Interface Types», type of lesson - lecture, 3 course, specialty 5B070400 -»Esepteu techniques zhane not bғdarlamalyқ қamtamamyzet etu», art. Teacher Myrzaev RS (audience 313, building 5);

- on the discipline»Web technology zhane Web design", the topic»Formalarmen zhumys", 3 course, specialty 5B070400 -»Esepteu technicians zhane not bғdarlamalyқ қamtamamyzet etu», teacher Myrzamұratova AA (audience 312, building 5);

- on the subject “ Information and communication technologies», the topic “ Human-computer interaction . Fundamentals of Human-Computer Interaction . Ergonomics», type of occupation - laboratory lesson, 1 course, specialty»5B070300 - Information Systems», Art. teacher Ashimova ME (audience 312, building 5).

In accordance with the accreditation procedure, 102 teachers, 143 students, including students of junior and senior courses, were surveyed. In the “Computer Science»department, only 14 teachers took part, which is 13.7%.

In order to confirm the information presented in the Self-Assessment Report by external experts, the working documentation of the university was requested and analyzed. Along with this, the experts studied the university's Internet positioning through the official website of the university http://www.korkyt.kz .

All conditions were created for the work of the EEC, access to all necessary information resources was organized. From the side of the team of Korkyt KSU Ata was provided with the presence of all persons indicated in the program of the visit, in compliance with the established time period.

In the framework of the planned program, recommendations for improving accredited educational programs of the Korkyt KSU Ata, developed by the EEC on the basis of the results of the examination, were presented at a meeting with the management on February 22, 2019.

(VI) CONFORMITY TO SPECIALIZED ACCREDITATION STANDARDS

6.1. Standard»Management of the educational program"

The university must have a published quality assurance policy.

The quality assurance policy should reflect the link between research, teaching and learning.

The university should demonstrate the development of a culture of quality assurance, including in the context of the OP.

Commitment to quality assurance should relate to any activity performed by contractors and partners (outsourcing), including in the implementation of joint / two-diploma education and academic mobility.

The EP's management ensures the transparency of the development plan of the EP based on the analysis of its functioning, the real positioning of the university and the focus of its activities on meeting the needs of the state, employers, stakeholders and students.

The EP's management demonstrates the functioning of the formation mechanisms and regular review of the EP development plan and monitoring its implementation, assessing the achievement of learning objectives, meeting the needs of students, employers and society, making decisions aimed at continuous improvement of the EP.

EP management should involve representatives of groups of stakeholders, including employers, students and teaching staff in the development of EP development plans.

The EP management must demonstrate the individuality and uniqueness of the EP development plan, its consistency with the national development priorities and the development strategy of the educational organization.

The university must demonstrate a clear definition of those responsible for the business processes within the EP, the unambiguous distribution of staff duties, and the delineation of the functions of collegial bodies.

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

The EP management must demonstrate the successful functioning of the internal quality assurance system of the EP, including its design, management and monitoring, their improvement, making decisions based on facts.

EP management should implement risk management.

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 the management of the educational program.

The university should demonstrate the management of innovations in the framework of the EP, including the analysis and implementation of innovative proposals.

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

The management of EP must be trained in educational management programs.

The EP management must strive to ensure that the progress made since the last external quality assurance procedure was taken into account in preparing for the next procedure.

The evidence part

Politics of KSU in the field of quality is an integral element of university management and the basis for the planning of its educational activities. The quality policy is reflected in the university's internal regulations, the Strategic Development Plan of the KSU for 2017-2021 and other documents. The quality policy is posted in all university departments, on the university website, which is a guarantee of accessibility, openness, and transparency not only to employees and students, but also to employers and other interested parties (www.korkyt.kz).

Information on the implementation of goals and objectives for quality is placed in articles about the university, published in the media of republican, regional and local importance, such as Yegemen Kazakhstan, Kazakhstanskaya Pravda, Kyzylorda News, Syry Boy, etc. local and national television, on the Internet, on the official website of the university. The mechanisms for strategic and operational management of the accredited EP include the following:

- an annual review of the content and structures of the EP taking into account the best Kazakhstani and foreign experience in training specialists in these specialties, recommendations of practitioners from interested organizations cooperating with the Korkyt KSU Ata ;

- establishing feedback with students in the undergraduate and graduate programs through sociological questionnaires and their reviews and opinions published in social networks;

- analysis of the content and quality of the final works of bachelors and master's theses and projects using the Antiplagiat system;

- open access to the materials of disciplines accredited by the EP at the Educational portal of the KSU based on the Platonus and E-univer platforms ;

- analysis of the results of all types of practices carried out in external organizations, and the employment of graduates of undergraduate and graduate programs ;

- participation in competitions and competitions, preparation and participation of students in specialized events (business games) held outside the University;

- analysis of the market needs and adaptation of the content, structure and management system of the EP in accordance with the dynamics of demand and expectations of consumers of services of the accredited EP;

- regular hearings of the progress and results of the implementation of the accredited EP at meetings of the Academic Council of the Korkyt KSU Ata and the Faculty of Environmental Engineering, meetings and methodological seminars of the department»Computer Science". The results of the work of the department and the assessment of the teaching staff of the accredited EP are carried out on the basis of the results of each semester and academic year.

The Commission notes that in the Strategic Development Plan defined long-term vision, which indicated that the educational activities of the university is aimed and directed at achieving the goals and objectives of the national education system on the basis of spiritual and moral values and national patriotic ideas»Mangilik E l".

Perspective and strategic issues of the development of EP are solved taking into account the views of students, teachers, university employees and employers.

KSU is reviewing the strategic objectives of the university in the light of changes in external factors, new key areas of public policy.

By accredited by the graduating department is the department of»Computer Science". First of all SESSION Chairs in the beginning learning of the year are distributed Responsibilities between the PPP and the department, are being considered responsible for Different directions activity Kafedra, Relevant successful implementation of EP.

Preparing EP 5B070300 - Information systems vedetcya by educator trajectories»Information systems in production»c by granting Service Technicians Bachelor of engineering and technology in specialty 5B070300 Information Systems.

EP 5B070400 - Computer equipment and software is maintained two educational trajectories :»Computer systems and networks»and»Software design»c when c voeniem Service Technicians Bachelor of engineering and technology in specialty 5B070400-»Computers and Software".

Manufactured by MONITORING requirements interested ctoron, coderzhanie EP korrektiruetcya c accounting remarks and wishes .

The department carries out the relationship between the business community and the scientific community.

The development of a quality assurance culture is expressed in major changes in the organization of education and in the practice of EP management.

The decision of the Academic Council of the University of August 29, 2016 approved the Academic policy of the university, which determines the algorithm of academic activities.

In order to improve the quality of training specialists in undergraduate and graduate programs, to ensure the needs of employers in competitive specialists, the Academic Council in the field of»Information Technologies»has been established under the department of academic issues.

Development and incorporation of elective courses in the specialties of Rupa, the definition of accredited educational trajectories EP considered and discussed at the Academic Council in the direction of»Information Technology".

The members of the EEC are convinced that the university has developed a policy in the field of quality assurance aimed at the continuous improvement of the educational process, research activities, and implementation of innovative projects. This policy is based on the mission, vision and values of the university. KSU monitors employer satisfaction with university graduates. A provision has been developed to take into account the views of employers on the professional suitability of KSU graduates.

The university conducts an internal audit through monitoring the implementation of work plans for structural units, opinion polls, monitoring studies of the quality of students' knowledge. However, the university does not always and insufficiently ensure the awareness of stakeholders and the transparency of the content of the main strategic documents and EP development plans.

At the university, including in the context of EP for accredited specialties, work is underway to forecast the formation of a student contingent, as well as on the basis of the implemented data on the results of vocational guidance work on the E-univer university portal in the IP section. The entrant analyzes the preliminary release of students of secondary schools. and technical and vocational education organizations.

On the basis of the Concept of Development of Trilingual Education approved at the University, the Department of Computer Science provides training for multilingual staff. In order to modernize the educational system and provide students with modern knowledge and necessary competences, the teaching staff of the accredited specialties systematically improve their professionalism in quality improvement courses. To assess the professional activities and stimulate faculty at the university, an annual competition “Best teacher»is held, which results determine the rating of faculty members and make an additional payment to the basic salary.

The development of EP with the use of NQF and PS create the opportunity to: formulate real and measurable learning outcomes in the vocational education system; plan training volumes and profiles; determine the trajectories of learning for students throughout their lives. Educational programs are systematically updated taking into account the interests of employers and students. Monitoring of educational programs is carried out by conducting a survey of students. The quality of educational programs is indicated by statistics of graduates' employment, which is monitored by the department of the organization of the educational process.

Innovations in education are stated as a factor in the successful future of students . Therefore, the display and use of innovation in the EP is a necessary condition in modern higher education in terms of its academic freedom.

As part of the training of the management of accredited EPs, the university organized courses in educational management programs.

In order to assist in the development of competencies of representatives of structural units of universities for the effective implementation of academic policy based on the discussion and development of rules ofacademic integrity of education subjects on December 4-5, 2017 at KSU organized a regional training seminar “Academic policy of the

university: administration, tools and subjects", conducted by the Erasmus + program coordinator in Kazakhstan.

21.05.2018-23.05.2018 - a seminar "International rules for business management based on the international standard ISO 9001: 2015" was organized for university staff, from among the employees of structural units, faculty members at the university. Personal growth of a professional in modern conditions.»

Within 3 days, the workshop participants received knowledge on strategic management, leadership, risk management, personnel management in the realities of the new time. As a result, it was noted that knowledge of the rules and ideology of system management should become one of the national priorities, which can significantly advance the competitiveness of our economy in markets of various levels.

Accredited EPs are consistent with the mission of the university and the relevant requests of employers. The planning of the educational process is represented by the structure of interrelated documents (model curricula, QED, basic working curricula, individual curricula of students, working curricula) and a complex of various types of educational and methodical documentation. To implement the EP developed catalogs of elective courses, which describe the discipline of choice component indicating brief content, etc. e and postrekvizitov.

Analytical part

The IAAR on the basis of meetings, conversations and interviewing of vice-rectors in the areas of activity, deans and heads of departments, managers and employees of structural units, faculty members, students, graduates and employers, notes the distribution of staff duties and the delineation of the functions of collegial bodies participating in implementation of OP.

Based on interviews with target groups, it can be concluded that the transparency of the development plan for the accredited EPs is not always ensured. The uniqueness, peculiarity, advantages of the accredited EPs are not defined in comparison with other programs implemented in the region and the republic.

The strategic plan for 2017-2021 complies with the current legislation of the Republic of Kazakhstan in the field of education and science, strategic and program documents adopted at the republican level. Interviewsconducted with teachers, students of the department showed that not all teachers, staff and students are aware of the content of the Strategic Development Plan of the university, not enough aware of their contribution to the implementation of the Strategy.

The department does not realize joint / double-diploma education. Also, the department has not demonstrated the presence of the innovation management process, analysis and implementation of innovative proposals.

The EEC confirms the existence of plans for the development of educational programs, which allows for the simultaneous development of various educational programs in the context of the Strategic Plan for the development of the university. However, the EEC notes the need to specify the strategic planning indicators in the context of directions and time intervals.

The implementation of the EP corresponds to the legislation of the Republic of Kazakhstan in the field of education, including the SES RK. EP is implemented in accordance with the mission, vision and strategic development plan of the university. The quality assurance policy reflects the link between research, teaching and learning. The mechanisms for the formation, revision, monitoring and implementation of the EP development plan are defined. At the same time, experts have revealed that it is not always ensured the transparency and awareness of the processes of the formation of the EP of employers. First of all, you need to remember that the employer is different. Each employer

can have its own specific requirements for a university graduate, so in this matter the most appropriate work with employers' associations will be. Associations can form the right generalizing requirements for each of the specialties.

It is doubtful whether the following statement powered by the Department of the report:»Employment after graduation from the university according to EP 5B070300 Information Systems and 5B070400 computer technology and software FAQ - 75-100%.»It is necessary to consider not general employment, but work on the chosen specialty and in accordance with one's level of knowledge, for example, there are many specialties that require mainly knowledge at the college level - a system administrator, a tester, an encoder, etc.

The strategy of the university has the item “Development of academic mobility”, but the implementation of academic mobility of students and teaching staff is currently absent, however it is planned in the future and this is postponed for an indefinite period.

With the departure to the mobile sphere, education adapts to the conditions of this environment, becoming more compact and interactive. In the mobile web, it is important that information can be assimilated in small chunks, as closely as possible to the situation and, at the same time, that the process of interaction with the product is a pleasure. Accordingly, user habits are changing: students increasingly want education to be effective. The growth of mobile technology makes constant changes in education. Education is no longer limited to space or tools, such as desks, computers, or expensive textbooks. Instead, all the power of learning has focused on everyone’s fingertips with instant access and unlimited possibilities. Being in the role of catching up is KSU’s perspective future if decisive action is not taken in this direction.

The experts were convinced of the coherence of the university’s strategic goals, the adequacy of the mission, vision, strategy to the available resources: financial, informational, material and technical base.

The leaders of the university and the EP recognize that the level of the certified QMS is very low, this is identified as an important risk factor in the framework of the EP. The university has not developed corrective and preventive measures to manage this risk.

Within the framework of the accredited EP, the mechanism (or procedure) for the selection of stakeholders tEParticipate in the formation of an educational program development plan is not defined.

According to the results of interviewing, familiarization with various documents, material and technical base and information and methodological resources of the university and departments, students' questionnaires and teaching staff, EEC IAAR notes the following:

- lack of implementation of dual training and double-diploma education;
- insufficient interrelation of the university and stakeholders ;
- links in the documentation to irrelevant regulatory legal acts.

According to EP 5B070400, 6M070400 - “ Computing equipment and software”, the individuality and uniqueness of the EP development plan are not sufficiently represented, compared to other EPs implemented in the region and in the Republic.

By 5B070300, 6M070300 -»Information systems":

- within the framework of the EP, the mechanism (or procedure) for the selection of stakeholders for participation in the formation of the development plan for the EP and the educational program itself is not defined.

The survey results showed that the usefulness of the web site of educational institutions in general and faculties in particular (very good - 66.4%, good - 25.8%, satisfactory - 5.6% and unsatisfactory - 2.8%). These are rather low indicators, especially with the widespread introduction of ICT in the educational process and the education

management system, and this will be one of the limiting factors for the introduction of distance, mobile, and face-to-face network education.

A survey of faculty members conducted during the visit of the EAPA showed that the involvement of faculty members in the management and strategic decision-making process - "fully satisfied»and "partially satisfied»- 78.4% and 19.6%, respectively, answered "not satisfactorily" and "Hard to answer" - 1%.

The EEC IAAR on the basis of meetings, conversations and interviewing of vice-rectors in the areas of activity, deans and heads of departments, managers and employees of structural units, faculty members, students, graduates and employers, notes the distribution of staff duties and the delineation of the functions of collegial bodies participating in implementation of OP.

Strengths / Best Practices

Strong position - the EP's management has been trained under the program of education management.

EEC recommendations

According to EP 5B070300.6M070300 - "Information systems", 5B070400, 6M070400 - "Computing equipment and software":

- the department needs to more clearly reflect the link between research conducted at the department, with the teaching and implementation of graduation projects and master's theses;

it is necessary to ensure participation in relevant collegial governing bodies of the EP, not just employers, but employers who are members of associations in the field of ICT;

it is necessary to have innovation management in the framework of the EP, including the analysis and implementation of innovations in the EP;

to determine the uniqueness and advantages of the accredited EP in comparison with other EP implemented in the republic;

the department must constantly demonstrate changes and the implementation of the recommendations of the latest external checks when preparing documentation;

to envisage the possibility of a wider introduction in these specialties of the process of teaching academic disciplines in the English language in order to ensure the compliance of educational programs with the leading trends of the national educational policy (multilingual education);

define the role and functions of educational program managers;

systematize the risk assessment of the development of educational programs and develop a mechanism for their reduction, including such factors as the development and improvement of EP, risk management, monitoring, making decisions based on facts;

to identify and analyze the resources (human, material, financial, organizational, etc.) necessary for the implementation of the EP. Use the results of resource analysis when updating the EP development plan;

the department needs to begin work on the introduction of two-diploma education;

The University's website also raises its criticism (this is confirmed by the questionnaire survey), it needs to be adjusted, increasing its importance for both students and faculty.

Conclusions EEC on the criteria:

According to the standard "Management of the educational program", 17 criteria are disclosed, of which educational programs are accredited: According to EP 5B070300, 6M070300- "Information systems", 5B070400, 6M070400 - "Computing equipment and software": has 1 strong positions, 12 satisfactory positions and 4 - suggest improvement.

6.2 Standard»Information Management and Reporting»

The university should ensure the functioning of the system for collecting, analyzing and managing information through the use of modern information and communication technologies and software.

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

Within 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 activities of departments and departments, and research.

The university should establish the frequency, forms and methods of evaluating the management of EP, the activities of collegial bodies and structural divisions, senior management, the implementation of research projects.

The university must demonstrate how to determine the order and ensure the protection of information, including determining those responsible for the accuracy and timeliness of information analysis and data provision.

An important factor is the involvement of students, employees and teaching staff in the process of collecting and analyzing information, as well as making decisions based on them.

EP management must demonstrate the presence of a communication mechanism with students, employees and other stakeholders, including the availability of conflict resolution mechanisms.

The university should provide a measure of the degree of satisfaction of the needs of faculty, staff and students in the framework of the EP and demonstrate evidence to eliminate the detected deficiencies.

The university should evaluate the effectiveness and efficiency of activities, including in the context of the EP.

Information collected and analyzed by the university in the framework of the EP, should take into account:
key performance indicators;
the dynamics of the contingent of students in the context of forms and types;
level of performance, student achievement and expulsion;
students' satisfaction with the implementation of the EP and the quality of education at the university;
availability of educational resources and support systems for students;
Employment and career growth of graduates.
Trainees, employees and teaching staff must document their consent to the processing of personal data.
EP management should contribute to the provision of all necessary information in relevant fields of science.

The evidence part

The system of collecting, analyzing and managing information KSU them. Korkyt Ata is based on the use of information and communication technologies and software. For information management, the official website of the university is used (www.korkyt.kz); management of educational and methodical information is carried out in the framework of the AIS Platonus (ais / platonus / korkyt.kz). In 2004, in KSU them. Korkyt Ataintroduced the automated workplace of the University, since 2014 the E-UNIVER Electronic Portal has been operating, where about 10 services are provided to students.

The university has an automated desktop (AWP) of the department, which has all the data of teachers and the department as a whole, the practice and ratings of teachers. You can also find data on schools in the area for career guidance. In the section of practice, you can take information about the place of practical training of students. Teachers' ratings reflect all their scientific works and projects, publications, information about extracurricular educational activities and participation in various events, television shows, round tables, trainings conducted by them, and career guidance. According to this data, a special internal commission gives an assessment and, according to its approval, every academic year every teacher who has earned a high rating is financially encouraged.

The student’s AWP includes the student’s payment data and their data.

The university has an electronic portal e-univer.kork from t.kz, which has the ability to exchange information, it reflects all the educational activities of the participants of the educational process of the university.

The university’s electronic portal has sections with functions that include:

1) Rector's blog - sending letters and getting an answer;

2) Blogs of division managers - sending letters to the vice-rectors and receiving their response;

3) Government services - Receiving all sorts of certificates, submitting applications, getting a place in a hostel, etc ;

4) Information System IP 'Dean's Office' - Entering schedules, sending messages to students and other organizational work;

5) Electronic document management - Work with documents that are registered by the department of documentation support of the university;

6) Information IP system 'Major' - Enter the working curriculum specialty, the implementation of the individual plan, PPS materials for participation in the ranking, and so .d;

7) Information system IP 'Teacher' - Enter students' progress, download content, etc ;

8) Information System»Student»IP - Participation in chat classes, forums, passing tests and others ;

9) Information system IP»Entrant»- Data on graduates of the region;

10) Information System IP 'Electronic Library' - Search for literature from the database of the University's scientific and technical library (Annexes 10 - Electronic University E-Univer).

Optimal management decisions at the university are made on the basis of the established system for collecting, analyzing and evaluating information on activities, including the following data: key performance indicators (KPI); the structure of the student contingent in the context of specialties and courses of study; student progress, their success and the share of expelled students; methods and periodic assessment of student satisfaction with programs and disciplines; periodic assessment of the satisfaction of faculty, staff working conditions, management system, available resources, etc .; assessment of the availability of resources for training and supporting students; employability of graduates, communication with employers, monitoring of graduates' careers.

There is a process of engaging students, employees and teaching staff, employers in the process of collecting and analyzing information, as well as making decisions based on them (questioning on current issues and monitoring data).

The university's regulatory documents are freely available and access to information on the management, planning and implementation of EPs is provided.

The properties and characteristics of the information collected and processed are determined by the university's mission and are aimed at finding the most effective and efficient methods and ways to improve the quality of the educational and related services provided, as well as improve the social conditions of employees and students. The university has responsible persons responsible for the accuracy of the information, timely informing the structural divisions of the university and the faculty.

One of the tools for analyzing the activities of KSU departments and evaluating their effectiveness are annual sociological surveys of students, teachers and university staff.

In all divisions of the university, records management is carried out in accordance with the approved nomenclature of affairs, the safety and archiving of documents is ensured, work is underway to switch to electronic document circulation. Structural departments, halls of electronic resources of the university are connected to the Internet. The university partially provides free access to teachers and students to the Internet and Wi-Fi on campus.

To assess the organizational structure and management system of the University and implement corrective actions, reports from heads of departments, questionnaires, audits, surveys are used. Evaluation is made in all areas of educational, educational, informational,

scientific, educational activities and material and technical support of the educational process. The University conducts certain work on the collection and analysis of statistical data on the contingent of students and graduates, information on the level of employers' satisfaction with the quality of the development of educational programs.

The manual provides communication and information exchange at the university through: distribution of organizational and administrative documentation, decisions of the Academic Council, university administration and other types of documentation, including from receptions on personal and official matters; business correspondence (reports and memoranda, explanatory notes, statements); visual information materials, scientific and methodological publications and articles in the central and local press; placing information on information stands and the university website. Students, employees and interested persons can personally contact the head of departments, vice-rectors, and the rector in a specially allotted time. Suggestions and recommendations can be made during meetings of collegial bodies, which include students and teachers.

The results of the survey among students and teaching staff on the issue conducted by the EAP IAAR indicate that:

- students showed not high satisfaction with the usefulness of the web site of educational organizations in general and faculties in particular: “Fully satisfied»- 66.4%;

- The level of accessibility and responsiveness of university management»Very Good»- 78.3%,»Good»- 19.6%,»Relatively bad»- 2.1%.

“The quality of the services provided in libraries and reading rooms: Very good” - 83.2%, “Good»- 11.2%, “Relatively bad»- 5.6%.

Analytical part

The system of collecting, analyzing and managing information at KSU is based on the application of information and communication technologies and software. For information management, the university’s educational portal is used, where the university’s regulatory documents are located and access to information on management, planning and implementation of EPs is carried out. The process of involving students, employees and teaching staff in the process of collecting and analyzing information, as well as making decisions based on them, has been established.

Surveys of faculty and staff are conducted annually and include a study of the level of satisfaction of faculty and staff with working conditions, prospects for professional development and administrative management of the university.

The survey of students about satisfaction with the conditions of study is held annually in order to study the views of students on the quality of educational and administrative services of the university.

Personal files of faculty, staff, students have not confirmed the documentary consent to the processing of personal data.

At the time of the visit, the use of AIS Platonus, at an inadequate level, is represented by the management of educational and methodological information; the use of the program by students of EP is not demonstrated.

Under the accredited EP there is not enough information to attract applicants.

The university has not developed a plan of assistance for the employment of graduates, the website of the university does not provide information on interaction with employers.

Strengths / Best Practices

Information collected and analyzed by the university takes into account:

- the dynamics of the contingent of students in the context of forms and types;
- performance level of achievement of students and deductions;

EEC recommendations

According to EP 5B070300, 6M070300-»Information systems", 5B070400, 6M070400-»Computing equipment and software":

- to ensure the functioning of the system for collecting, analyzing and managing information through the use of modern ICT and software;
- to supplement the website of the department with necessary information about the educational program and ensure their accessibility for students;
- to ensure that the institution of higher education documents about consent to the processing of personal data of students, faculty and staff of the university;
- The university should demonstrate the management of innovations in the framework of the EP, including the analysis and implementation of innovative proposals.

Conclusions EEC on the criteria:

According to the "Information Management and Reporting»standard, 17 criteria are disclosed, of which educational programs being accredited are: 5B070300, 6M070300 - "Information systems", 5B070400, 6M070400 - "Computing equipment and software" have 2 strong positions, 11 satisfactory positions and 4 - assume an improvement.

6.3 Standard»Development and approval of the educational program"

The university should determine and document the procedures for the development of EP and their approval at the institutional level.

EP management must ensure that the developed EPs comply with the established goals, including the expected learning outcomes.

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

The management of the EP must demonstrate an external examination of the OP.

Qualifications obtained at the end of the EP should be clearly defined, explained and correspond to a certain level of the NSC.

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

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

EP management must provide evidence of the participation of students, faculty and other stakeholders in the development of EP, ensuring their quality.

The complexity of the EP should be clearly defined in Kazakhstan loans and ECTS.

The management of EP must provide the content of academic disciplines and learning outcomes to the level of education (bachelor, master, doctoral).

The structure of the EP should provide for various activities that correspond to the learning outcomes.

An important factor is the presence of joint EPs with foreign educational organizations.

The evidence part

The university has established a procedure for the development and approval of the OP. The university has documented the procedures for developing and evaluating the quality of the educational program, established the frequency, forms and methods for assessing the quality of the educational program; established a procedure for periodic review and monitoring of the quality of educational programs; the requirements for educational programs are determined depending on their specificity. The conditions for the external examinations of the EP and the conditions for the organization and conduct of professional practice are demonstrated.

Development and management of educational programs 5B070300, 6M070300 - »Information systems", 5B070400, 6M070400 -»Computing equipment and software»are carried out on the basis of SES RK (Basic Provisions), TUP specialties, Dublin descriptors, Rules for the organization of educational process on credit technology of education.

Educational programs in accredited specialties operate in accordance with the mission, goal, objectives, and perspective of the university's goals and objectives of the national education system and the development of the region.

The university has developed a procedure for approving, periodically reviewing (revising) and analyzing the EP and documents regulating this process. TEProvide the EP with relevant content, the list of elective practice-oriented disciplines is systematically reviewed and supplemented.

The need to change the content of the EP is determined by the department on the basis of the analysis: changes in the SOSO of the EP; employer survey results; the results of students' surveys in the field of satisfaction with the acquired competencies; learning outcomes on the basis of the SJC; sought-after competencies in the labor market.

The development of specialty education 5B070300, 6M070300 -»Information Systems", 5B070400, 6M070400 -»Computing equipment and software»in order to achieve the planned learning outcomes involved the Academic Council in the direction of»Information Technology", the faculty of»Computer Science", trainees and employers.

Guided by the requirements of the standard plan, the content of the catalog of elective courses and the academic calendar, students must determine the individual trajectory for each academic year. Methodical assistance to them should provide advisors. The logic of drawing up an individual plan determines the choice of elective courses, teachers, supervisor, topics of course and final works.

Table 2. The list of elective disciplines offered by employers

No	Uch z od	ED name	Cr.	Organization	Protocol, date
5B070300 -»Information Systems"					
one	2015-2016	Databases and data banks in the economy	3	Communal State Institution»Kyzylorda Regional Training Center (Methodical Cabinet)»S.K. Askarov	No. 9 of 04/09/2015
2	2015-2016	Basics of information security and information security	3		
3	2016-2017	Application Package	3		No. 9 of 04/16/2016
3	2016-2017	Automated control systems	3		
five	2017-2018	Installation and adjustment of networks	3		№ 9 dated 04/20/2017
6	2017-2018	MatLab application in technical systems using Simulink	3		
7	2017-2018	Designing client-server information systems	3		
6M070300 -»Information Systems"					
one	2015-2016	Database Design and Administration	2	Communal State Institution»Kyzylorda Regional Training Center (Methodical Cabinet)»S.K. Askarov	
2	2016-2017	Optimization of information systems trust	2		No. 9 of 04/16/2016

3	2017-2018	Designing Information Systems Applications	2		№ 9 dated 04/20/2017
5B070400 - “Computer Engineering and Software”					
one	2015-2016	Programming engineering	3	Communal State Institution»Kyzylorda Regional Training Center (Methodical Cabinet)»S.K. Askarov	№9 from 04/09/2015
2	2015-2016	Construction of telecommunication networks and systems	3		
3	2016-2017	Modern database management systems	3		№9 from 04/16/2016
four	2016-2017	Wireless systems and networks, I P telephony	3		
five	2017-2018	Network security	3	JSC»TurgaiPetroleum»K.V. Grigoriev	№9 from 04/20/2017
6	2017-2018	Information protection of computer systems and networks	3		
7	2017-2018	C # Programming	3		
6M070400-»Computer Engineering and Software"					
one	2015-2016	Artificial Neural Networks		Communal State Institution»Kyzylorda Regional Training Center (Methodical Cabinet)»S.K. Askarov	№9 from 04/09/2015
2	2016-2017	Methods and models for the study of automated control systems			№9 from 04/16/2016
3	2017-2018	Real-time software development technologies		JSC»TurgaiPetroleum»K.V. Grigoriev	№9 from 04/20/2017

EP is developed in the state, Russian and English languages.

Academic Council in the direction of»Information Technology»monitors the quality of EP, their methodological and methodological support, compliance with the requirements of SES, demand for the labor market.

The Department of Computer Science as a graduating department has the following competencies:

- Develops EP, focused on learning outcomes, in accordance with the regulations in the field of education of the Republic of Kazakhstan, national and sectoral qualifications framework, professional standards.

- Develops EP, providing the opportunity to choose the educational trajectory of students .

- Provides organizational and methodological support for the implementation of the EP.

- Applies innovative technologies in training.

- Develops a practice-oriented approach to the teaching and learning of the discipline, establishing a link with production and research.

- Provides appropriate faculty and material and technical base.
- Presents an EP for external and internal reviews.
- Monitors and periodically evaluates the EP based on interviewing and questioning employers and students.

Educational programs of specialties 5B070300, 6M070300-»Information systems»and 5B070400, 6M070400-»Computing equipment and software»are developed on the basis of:

1. The national qualification framework approved by the protocol of the Republican Tripartite Commission on Social Partnership and Regulation of Social and Labor Relations of March 16, 2016.

2. Professional standards
- "Creation and management of information resources";
- "Database Administration";
- "Systems Analysis in Information and Communication Technologies";
- "Software Maintenance";
- "Software development»developed and approved by National Information and Communication Holding Zerde JSC (Version 1, 2015) by Order No. 171 dated July 17, 2017 of the Deputy Chairman of the Ministry of Health of the Republic of Kazakhstan of the National Chamber of Entrepreneurs of the Republic of Kazakhstan Atameken.

3. State compulsory standard of postgraduate education, approved by the Government of the Republic of Kazakhstan of August 23, 2012 No. 1080 with amendments and additions of May 13, 2016. No. 292.

4. Model curricula for specialties 5B070300, 6M070300-»Information systems»and 5B070400, 6M070400-»Computing equipment and software", approved by order of the Minister of Education and Science of the Republic of Kazakhstan dated July 5, 2016 No. 425.

5. Classifier of specialties of higher and postgraduate education of the Republic of Kazakhstan (RK GK 08-2009). University OPs are approved by the rector of the university on the basis of the decision of the Academic Council and the Supervisory Board.

Responsibility for the quality of EP is carried out by the graduating department and the Academic Council in the areas of training of higher and postgraduate education.

The development of the EP undergoes the following procedures:

1. For the scientific substantiation, the Department of Computer Science annually monitors the needs of the labor market, graduates of schools and colleges, analysis of the existing infrastructure (material, technical and information resources, faculty).

2. The Department of Computer Science annually, jointly with employers, at round tables, seminars, and department meetings conducts the procedure for coordinating and approving educational trajectories of students' choice, taking into account the requirements of employers and the needs of the region, as well as the wishes of students. The main goal of these events is to test the trajectories in the direction of training among practitioners, programmers and persons engaged in teaching activities. During the discussion of the trajectories of specializations, the provisions, mathematical, software, technical, organizational and legal support of information systems, as well as their design, development, implementation and support related to the implementation of the educational program, were analyzed .

3. Every year, the faculty of the Computer Science department conducts career guidance work with graduates of schools and colleges: secondary school No. 143, regional lyceum boarding school for gifted children No. 9, No. 10, secondary school No. 235, secondary school No. 215 of Taldyral District, secondary school No. 11, school-lyceum No. 5, secondary school No. 222, school-lyceum No. 264 named after T. Esetov, Agrarian-Technical Higher College named after I. Abdukarimov, Pedagogical Higher College named

after M. Mametova, Kyzylorda Humanitarian Legal and Technical College, Kyzylor Insko College of Abylaikhan.

At the university, including in the context of EP for accredited specialties, work is underway to forecast the formation of a student contingent, as well as on the basis of the implemented data on the results of vocational guidance work on the E-univer university portal in the IP section. and technical and vocational education organizations.

The purpose of the educational program is tEPrepare highly qualified specialists in the field of IT technologies with a competitive level of knowledge, skills and professional skills, tuned to innovations, able to compete in a market economy, ready to succeed in organizations, public institutions of Kazakhstan and beyond.

EP specialties 5B070300, 6M070300-»Information systems", 5B070400, 6M070400-»Computing equipment and software»are aimed at assisting in strengthening and developing Kazakhstan by 2020 as a country leading in the training of highly qualified IT specialists in various fields of production, business, the economy, to improve the relationship with employers, to increase the competence of graduates.

The competence model of the graduate of the specialty is developed by the department on the basis of the professional standard, SES RK 2016, "Qualification directory of positions of managers, specialists and other employees", approved by order of the Ministry of Labor and Social Protection of the Population of the Republic of Kazakhstan dated 25.11.2010 No. 385 "Typical qualification characteristics of the positions of pedagogical workers and persons equal to them", approved by the order of the Ministry of Education and Science of the Republic of Kazakhstan dated 13.07.2009, No. 338; job descriptions of employees, as well as the results of a survey of academic experts and employers. It was verified and validated at enterprises, in educational institutions, in organizations. The model of a graduate of accredited educational programs was prepared at the Computer Science Department.

The project "The Trinity of Languages»of the President of the Republic of Kazakhstan N.Nazarbayev can be fully considered as one of the long-term development strategies of Kazakhstan. Multilingualism is stated as a strategically important task of education in the State Program for the Development of Education for 2011-2020. In this regard, the University is actively focused on improving the quality of teaching the state and Russian languages. Much attention is alsEPaid to the study of English. The 2012-2017 academic year adopted the concept of multilingual education. In accordance with this concept, from the 2012-2013 school year, the Computer Science department admits students to multilingual groups and classes are conducted in three languages. Namely, the release for the previous school years by specialties 5B070300-»Information systems", 5B070400-»Computing equipment and software»the following:

- 2012-2013 academic year - VTPO-12-1 p \ I - 13, IS-12-1p \ I - 12 students;
- 2013-2014 academic year - VTPO-13-1 p \ I - 13, EC-13-1p \ I - 11 students;
- 2014-2015 academic year - VTPO-14-1 p \ I - 14, IS-14-1p \ I - 15 students.

For this academic year, classes are conducted in the following multilingual groups: IS-18-1p \ I, VTPO-18-1p \ I, IS-17-1p \ I, IS-16-1p \ I, IS-15-1p \ I, VTPO-15-1p \ i.

A survey of faculty members conducted during the visit of the EAP IAAR showed that:

- The faculty believe that the university management pays attention to the content of the EP for "very good" - 67.6%, for "good»- 30.4%;

- PPS satisfies the content of the educational program for "very good" - 60.8%, for "good»- 38.2%;

The results of students' questioning on the issue of support with educational materials in the learning process: "fully satisfied»- 81.1%, "partially satisfied»- 14%, "partially not satisfied»- 2.8%, "not satisfied»- 1.4% I find it difficult to answer - 1.4%.

Analytical part

The university has defined and documented the procedure for assessing the quality of EP, the structure of the educational program has been developed. The conditions for the organization and conduct of professional practice are demonstrated.

Taking into account modern occupational requirements, the needs of the labor market and the proposals of employers, the content of the EP is reviewed, however, individual employers, and not employers' associations, participate in the development of EMCD.

The university has no joint educational programs with foreign educational organizations.

Experts noted that during the implementation of the EP there are the following discrepancies, so:

- there is no scientific component in the topics of dissertations, often the topic corresponds to the level of undergraduate or even college;
- coordination of work programs with employers is available only with individual productions; it is more appropriate to coordinate with employers' associations that are members of the Atameken National Chamber of Entrepreneurs;
- the participation of teachers from the number of domestic universities that implement EP for the successful development of EP is not implemented;
- there is no uniform correspondence of the terms of practice on the EP in the schedule of the educational process and the academic calendar, as well as in the contracts for the provision of practice;
- in the tripartite treaties for practice there is no uniformity in filling, there are no signatures of students and details of the organizations;
- the catalog of elective disciplines duplicates the Model Curriculum and includes a mandatory component;
- analysis of the quality of updating the special disciplines showed their duplication with the mandatory program;
- it is advisable to include in the QED of the department»Computer Science»the innovative discipline»Team Project»according to the experience of the National Research University»Higher School of Economics»of the Software Engineering Department.

Today, the domestic labor market does not need personnel in general, but highly qualified personnel.

This is training and retraining of personnel for the successful implementation of the State program of forced industrial-innovative development. It is important to develop dual vocational education, create modern centers of applied qualifications, not to mention innovative industries. Today there are problems with industry personnel, even in agriculture.

The main steps towards improving the quality of technical training are the creation and updating of professional standards. Professional standards are channels of the relationship between education and business, which define the minimum requirements for knowledge, skills and competencies at each professional level. Based on it, new educational programs should be updated or developed.

Professional standards will also form the basis for an independent assessment and qualification with the direct participation of enterprises.

Another step will be the introduction of a system for determining and forecasting staffing needs in the context of specific professions, which will allow us to focus on the real needs of the labor market.

The next step is to improve the quality of the educational process. The education system should train personnel, which, together with theoretical knowledge, will acquire the necessary skills for quick adaptation in real working conditions.

In technical and vocational education it is necessary to strengthen close partnerships with business. Universities should be focused on the needs of employers. Training programs should be aimed at the formation of certain competencies through the transfer of integrated knowledge and skills to the student.

The department formally states that when developing the EP, the requirements of the National Qualifications Framework (NQF), professional standards (PS) were taken into account, but there is no specifics. Indeed, it is difficult and even impossible to directly use the requirements of the NDT and PS. It requires the development of a whole cycle of activities, but nothing is said about this in the report of the department.

The dynamics of the development of the ICT sector requires faculty to always be up to date with everything new in theory and in practical skills, so faculty must undergEPractical training at leading enterprises. Unfortunately, at the department most of the faculty does not have industrial experience and this affects the quality of training.

Also, the quality of training is affected by the inconsistency of existing qualifications in the changing situation on the labor market, the increasing requirements for the competence of specialists in connection with the development of new production technologies. A review of the practical training of future specialists is needed. At the moment, at the department, the practice for 2 different specialties is conducted similarly to each other (p.51 of the report). The specialties are different, different PSs are implemented, there are different tasks and goals, and the types of practices they have are the same. What is it like? It is necessary to search for implementable solutions to improve all types of practices, especially in courses 3 and 4, and bring them to at least 8 weeks versus 5 weeks. It is necessary to strive for students to work as much as possible at production sites or to be interns. This will require that students have certificates of access to equipment up to 1000 V. Acquisition of practical skills is possible only with direct work at the facility.

Does not meet the requirements of the choice of places of production practices. What practices can get specialists 5B070300, 6M070300 -»Information Systems»and 5B070400, 6M070400 -»Computing equipment and software»in such organizations as: Department of State Revenues, the judiciary, the Department of Internal Affairs, notarial chambers, prosecutors, schools, etc. P.? What kind of quality specialist can we talk about here? Undoubtedly, all of these organizations have computers, printers, websites, etc. equipment, but it's all college level, but not undergraduate, and even more so magistracy.

Qualification certification is a confirmation by an independent party of the fact that all the obtained learning results that a person has acquired in any way have been evaluated and meet the requirements of professional standards:

the idea of introducing compulsory certification encounters strong resistance in the academic environment;

certification of students of an educational institution is a serious step towards strengthening the image of an educational institution and increasing the cost of a specialist in the labor market;

- the most important point that requires special attention from the leaders of the educational institution - explanatory work among staff and students.

Having a qualification certificate of 6th level according to the PS after graduation from a bachelor degree will increase the chances of a graduate to get a job in a chosen specialty. This direction is only in its infancy, but it is already necessary to think about it and work in this direction.

It is necessary to revise the subjects of diploma projects and master's theses; they should be formed on the basis of production bottlenecks, new research directions and be coordinated with employers. It would be a good practice to defend graduation projects and master theses in the workplace where the work was done.

Strengths / Best Practices

- within the framework of this Standard no strengths have been identified.

EEC recommendations

According to EP 5B070300, 6M070300 - “Information systems”, 5B070400, 6M070400- “Computing equipment and software”:

- it is necessary to ensure the compliance of the developed EP with the established goals, presented in the professional standards of the respective specialties;

- to conduct an audit of the name and content of disciplines in the specialties of specialties 5B070300, 6M070300 -»Information systems", 5B070400, 6M070400 -»Computing equipment and software»in order to bring them in line with generally accepted standards and formed competences in accordance with professional standards;

- strictly take into account the relationship between the activities of the base of practices and the individual educational trajectory of the student when concluding contracts for the implementation of professional practices;

It is recommended tEProvide the possibility of extending the period of practical training to at least eight weeks;

it is necessary to foresee before production practice the organization of a safety course with electrical devices in accordance with the order of the Minister of Energy of the Republic of Kazakhstan dated March 31, 2015 No. 253 “Safety regulations for operation of electrical installations”, with issuance of certificates up to 1000 Volts;

- fundamentally review educational programs in the specialties 5B070300, 6M070300 -»Information systems", 5B070400, 6M070400-»Computing equipment and software", focus on the transfer of deeper theoretical knowledge to students, and alsEPay considerable attention tEPractice using modern technology ;

consider the possibility of passing internships of teaching staff and managers in other educational institutions that implement such EPs;

to introduce in the Republican Unitary Enterprise of the EP discipline of theoretical, research and scientific and practical orientation. Pay more attention to the content of disciplines that reflect the innovations and requirements of employers;

create conditions for preparing students for professional certification;

- provide for the possibility of replenishing the library fund of the university in accordance with the needs of disciplines;

the department to determine the formation of the priority areas of research, in which you can conduct research of teaching staff and undergraduates with the publication in scientific journals of Kazakhstan and abroad;

consider the implementation of joint educational programs with leading universities of the Republic of Kazakhstan and foreign educational organizations.

It is advisable to expand the list of graduation project managers who represent business structures that widely use information technologies in their production activities;

to envisage the possibility of the “Computer Science»department to introduce a term paper into the curriculum for students of 3-4 courses, the topics of which will correspond to the graduation project;

It is advisable to include in the QED department of the Computer Science Department an innovative discipline “Automation of Information Processing” with the aim of expanding the practical base for teaching students using modern software tools;

- to consider the issue of harmonization of educational programs with leading universities of the Republic of Kazakhstan implementing similar EPs.

- consider the implementation of joint educational programs with foreign educational organizations;

- develop a system for introducing research elements into the content of EP - to update the subject of master's projects / dissertations of EP, harmonized with modern requirements;

- EMCD to bring into compliance with the existing, but not with outdated NLA;

- to expand the work with potential employers whose business profile coincides with the future profession of graduates of EP.

Conclusions EEC on the criteria:

According to the standard "Development and approval of the educational program," 12 criteria are disclosed, of which educational programs are accredited: - 5B070300, 6M070300 - "Information systems", 5B070400, 6M070400 - have 5 satisfactory positions and 7 suggest improvement.

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

The university should monitor and periodically evaluate the EP in order to achieve 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 achievements of science in a particular discipline to ensure the relevance of the discipline being taught;

Changes in the needs of society and the professional environment;

Load, academic performance and graduation of students;

The effectiveness of student assessment procedures;

Expectations, needs and satisfaction of students;

Educational environment and support services and their compliance with the objectives of the OP.

The university and the administration of the EP must provide evidence of the participation of students, employers and other stakeholders in the revision of the EP.

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

EP management should ensure a review of the content and structure of the EP, taking into account changes in the labor market, employers' requirements and the social demands of society.

The evidence part

The leadership of the educational program for quality assurance not only develops the educational program, but also carries out its monitoring. Monitoring and periodic evaluation of the educational program of the accredited specialty is aimed at achieving the objectives of the EP, the full formation of the planned learning outcomes. University of KorkytAt KSU has its own requirements for the format of monitoring and periodic evaluation. The procedure for monitoring and periodic evaluation of the EP at the University is carried out on the basis of internal regulatory documents.

On the basis of the department»Computer Science»in the specialties 5B070400 / 6M070400 -»Computer Engineering and Software»and 5B070300 / 6M070300 - »Information Systems", monitoring and periodic evaluation of educational programs is carried out in order to guarantee the achievement of goals and meet the needs of students and society. An important element of the system for ensuring the high level of training of students is the regular monitoring and periodic evaluation of the EP.

The results of these processes lead to continuous improvement programs. All interested parties are informed of any planned or taken actions regarding these programs.

Monitoring and periodic evaluation of educational programs are aimed at achieving its goals, the full formation of the planned learning outcomes.

Constant monitoring and periodic evaluation of educational programs of accredited specialties include:

- survey of students, graduates, teachers, employer organizations;
- student performance;
- information support of the educational process, resource and information support of EP;
- analysis of the assessment system of students;
- assessment of the level of competence of research;
- the degree of compliance with the EP requirements.

Planning improvements is implemented using quality management tools. Measures are being developed to improve the processes, which are reflected in the documentation of the quality assurance system.

Forms, types of monitoring and evaluation of the OP:

1. Monitoring of educational programs through the survey of students.

2. The effectiveness of the implementation of the educational program at KSU. Korkyt Ata is assessed through internal and external evaluation and control. Internal control is conducted KSU them. Korkyt Ata departments and NMS University. External control of the effectiveness of the implementation of educational services is carried out in the process of the SJC work in all specialties, based on the results of external evaluation of educational achievements (AUD).

3. The faculty of the department»Computer Science»conducts a systematic analysis of the quality of learning of knowledge by students in the disciplines and the general level of training, which allows us to assess the degree to which the learner has mastered the educational material and to carry out constant monitoring of the quality of training. Monitoring of students' educational achievements in the studied disciplines is carried out on the basis of a point-rating system, the essence of which is that there is a continuous control of knowledge at all stages of training: current and boundary control, intermediate certification, final certification.

4. Regular checks of educational and methodical complexes of disciplines that are carried out by commissions consisting of leading teachers - members of the Scientific and Methodological Council of the University.

5. Mutual visits by teachers and visits to open classes according to approved schedules for the academic year; attendance of classes by the head of the department, representatives of the training unit, followed by discussion of the attended classes. Separately, an anonymous questioning of students is carried out as an assessment of educational programs and methods of teaching the course: “The teacher is through the student’s eyes”. The results of the survey allow to assess the satisfaction of students with regard to the program of study and the completeness of the feasibility of students' expectations. According to the results of the survey, teachers of the university and the administration make certain conclusions and take certain measures aimed at improving the quality of education

Analytical part

The minutes of the department meetings and methodological councils do not confirm the participation of students or employers in the development of EP. Reviews from employers in the EP are not updated. Students do not have information on what educational path they are studying.

There is no evidence of ensuring the content of academic disciplines to the level of training and the proposed learning results of the syllabus. Material and technical resources, in contrast to information resources, used in education, science is not sufficient and does not fully meet the requirements of the educational process in the framework of the EP.

During classes, modern multimedia media for presenting material, with the aim of forming a highly professional specialist, have not been demonstrated.

As an innovative teaching methods at KSU announced the use of distance learning technologies (DOT). Unfortunately, we were never able to demonstrate DOT, moreover, the teaching staff does not have sufficient knowledge and skills to implement and use such systems.

In addition, experts have established that:

- the content of programs in specific disciplines is not relevant, does not reflect the current achievements of science in the field of ICT;

- the research capabilities of the EP are not disclosed. On the basis of the documents reviewed (the topics of master's theses, reports on research practices, the topics of publications of undergraduates), it can be concluded that the research directions of the department are not clearly defined and are at the stage of development;

- the content of programs for individual disciplines is not relevant, there are nEProtocols for coordination with employers' associations;

- the management did not provide measures to ensure the revision of the content and structure of the EP taking into account changes in the labor market, employers' requirements and social requirements of the society.

The department needs tEPut on special control the employment of its graduates and their work in their chosen specialty, as well as to track their career growth for at least 3 years.

Modern EPs also require a modern approach to the learning process, the introduction of new teaching methods, especially with the use of ICT. In this direction, nothing new could be seen. The teaching method remains the same (reproductive teaching methods) and ICT in this case allows only a few to improve these methods.

Strengths / Best Practices

- within the framework of this Standard no strengths have been identified.

EEC recommendations

According to EP 5B070300, 6M070300-»Information systems", 5B070400, 6M070400-»Computing equipment and software":

- strengthen the role of the Association of Employers in the development of EP (definition of the university component, work programs of disciplines, etc. by conducting discussions, questionnaires, surveys, focus groups and using other forms of their involvement);

- it is recommended tEPut intEPractice the collective implementation of graduation projects, master's theses with a clear distribution of the functional responsibilities of each member of the creative group;

- to ensure the transparency and availability of materials on the created EP, both for students and employers;

- revise the name and content of elective disciplines in accordance with the requirements of the PS;

- taking into account that the skills of future specialists will be vocational, creative potential and critical thinking skills, it is necessary to develop criteria for evaluating such skills;

- revise the system of organization of research practice and control over the performance of its undergraduates;

- Plan work on their own research in the field of teaching methods of special disciplines of the EP.

Conclusions EEC on the criteria:

According to the standard “Continuous monitoring and periodic evaluation of educational programs,»10 criteria are disclosed, of which the accredited educational programs are 5B070300, 6M070300 - “Information Systems”, 5B070400, 6M070400 - “Computing Equipment and Software” have 2 satisfactory positions and 8 - suggest improvement.

6.5 Standard»Student-centered learning, teaching and assessment of progress"

EP management must ensure respect and attention to different groups of students and their needs, providing them with flexible learning paths.

EP management must ensure the use of various forms and methods of teaching and learning.

An important factor is the availability of own research in the field of teaching methods of academic disciplines OP.

EP management must demonstrate the presence of a feedback system on the use of various teaching methods and evaluation of learning outcomes.

The management of the EP should demonstrate support for the autonomy of students with simultaneous guidance and assistance from the teacher.

The EP's management must demonstrate the availability of a procedure for responding to students' complaints.

The university should ensure consistency, transparency and objectivity of the mechanism for assessing the results of training for each EP, including the appeal.

The university must ensure that the procedures for evaluating the results of the training of students in EP correspond to the planned learning outcomes and the objectives of the program. Criteria and assessment methods in the framework of the EP should be published in advance.

In a higher education institution, mechanisms should be defined to ensure that each graduate from the EP study results and ensure the completeness of their formation.

Assessors should possess modern methods of assessing learning outcomes and regularly improve their skills in this area.

The evidence part

The transformation of the learning process is aimed at changing the concept of quality assurance: from ensuring the same conditions for all to the achievement of the learning outcomes by all students. This approach can be implemented only with the introduction of student-centered education.

Student-centered learning plays an important role in achieving students learning outcomes. It allows you to create for each student unique conditions conducive to effective advancement along the chosen educational trajectory.

During the development of the educational program, undergraduate and postgraduate students independently determine the individual learning trajectory. In this regard, according to the academic calendar at the end of the school year, each student of the university chooses elective disciplines and teachers for the next academic year, guided by the choice of a standard curriculum, work curriculum, catalog of elective disciplines, recommendations of the adviser (www.korkyt.kz) .

In the specialty 5B070300 - Computers and software students, starting from the 3rd course are divided by the 2 nd educational paths»Computer systems and networks»and»Software design". The trajectory of learning specialty 5B070300 - Information systems is»Information systems in production.»This trajectory is focused on the training of highly qualified specialists in technical sciences with a specialty who are able to carry out professional activities aimed at providing professional and technical support for individuals, personal, social and professional development of the individual, harmonizing the social sphere of society in order to solve various problems. The main focus is on learning:

- special competence - possession of a system of subject, psychological and pedagogical. methodological and socio-humanitarian knowledge, skills and abilities, the ability to carry out their further professional development.

- communicative competence - the ability to establish and maintain the necessary contacts with other people, to be clear, easy to communicate, etc.

- information competence - the ability to own information technology, work with all types of information; be able to independently search for, analyze and select the necessary information, organize, transform, save and transmit it.

- intellectual competence - the ability to think analytically and comprehensively tEPerform their duties; own methods of personal self-expression and self-development, means of resisting professional deformations of the individual.

- social competence - the ability to form and live in social interaction: to change and adapt; to rational and responsible discussion, and reaching agreement with others; maintain relationships in the professional community, bear social responsibility for the results of their professional work.

Demonstrated mechanisms for assessing learning outcomes, appeals, transparency of criteria and assessment tools. There is a principle of objective peer review and appeal, which is especially important for specialties of art.

The university provides material support to successful students and students from low-income, large families and orphans, and a socially vulnerable category of students is provided with a flexible system of tuition fees. The university celebrates the success and activity of students, there are awards, diplomas and certificates.

In the educational process, teachers use various forms of conducting classes (business games; round tables; literature review; drawing up individual and group projects) that contribute to the development of students' skills of analysis and making professional decisions.

In order to adapt students to the educational environment of the university, the Guidebook is constantly updated, containing systematized information about the internal regulations, organizational and procedural norms of the educational process.

In the process of interviewing EEC IAAR students noted that they participate in the formation of their own (individual) educational trajectory, independently choose the elective courses that they need. In reality, with a more detailed survey, not a single student among those surveyed was so clearly able to explain to us on the basis of what and how they choose elective courses.

After all, when choosing elective courses, the individual needs of the student in mastering professional skills and cultural experience are taken into account. The choice of elective courses is also influenced by the place of internship, the choice of the supervisor and the topic of the thesis, the participation of students in scientific and design work, etc.

The results of research activities are presented in Table 3 and 4

Table 3. The prize places of students in scientific events of 2015-2018.

No	FULL NAME. the student	Group	Marked	event title
5B070300-»Information Systems"				
one.	Toleu Nurgul	IS-16-1p \ i	1st place	IV international scientific-practical competition»Scientific achievements and discoveries of 2018"
2	Toleu Nurgul	IS-16-1p \ i	1st place	

				IX Republican scientific and practical competition»Ulym sharaynasy"
5B070400-»Computer Engineering and Software"				
one.	Zhusip Nurbek	VTPO-14-1p \ i	2nd place	Republican subject Olympiad

Table 4. The level of involvement in research and development of students and undergraduates at all levels

No	Department activity	2015	2016	2017
5B070300, 6M070300 -»Information Systems"				
one	Participation in olympiads	3	3	3
2	Participation in contests	one	-	one
3	Participation in scientific conferences	17	13	ten
four	Participation in scientific publications	eight	sixteen	13
5B070400, 6M070400 - “Computing equipment and software”				
one	Participation in olympiads	3	3	3
2	Participation in contests	one	-	ten
3	Participation in scientific conferences	20	sixteen	sixteen
four	Participation in scientific publications	21	nineteen	23

According to the results of the student survey conducted as part of the EAPAA, it was determined that, in general, informing students about courses, educational programs, and academic degrees: “Full agreement»- 79%, “I agree»- 3%, “Partially agree»- 7 %,»Complete disagreement»- 0.7%;

- equal opportunities are provided to all students: “Full agreement»- 77.6%, “Agree” - 14%, “Partially agree»- 2.8%, “Total disagreement” - 4.9%.

The learning process at the university is characterized by clarity and transparency of requirements, both to the level of educational achievements and to control procedures, as well as the presence of “feedback»with the student. The survey of the EEC of students showed that:

- the course program was clearly presented: “Fully satisfied»- 72%, “Partially satisfied»- 19.6%, “Not satisfied»- 9.1%;

- the course content is well structured: “Fully satisfied»- 74.1%, “Partially satisfied»- 16.8%, “Not satisfied»- 8.4%;

- the material taught is relevant: “Fully satisfied»- 67.8%, “Partially satisfied»- 40.0%, “Not satisfied»- 3.5%;

- the teacher satisfies my requirements for personal development and professional formation: “Fully satisfied»- 66.4%, “Partially satisfied»- 21.0%, “Not satisfied»- 7.7%;

- the teacher objectively assesses the achievements of students: “Fully satisfied»- 69.2%, “Partially satisfied»- 20.3%, “Not satisfied»- 10.5%;

Student-centered learning involves focusing on creating unique conditions for each student, and in this regard, students choose their own ways of learning the material. To do this, the university together with students develop individual curricula (IEP), according to

which students from the catalog of elective disciplines (CED) independently choose disciplines and teachers, which further determines the trajectory of their education.

The teacher in the educational process acts as an observer or tutor, who only closely watches the students and directs their activity in one direction or another. The teacher, justly freed from subjectivism, assesses the student's individual accomplishments. Students prepare online presentations, various videos in a given direction or a specific task. In order to analyze the topics covered and generalize the new topic, programs are used to create quizzes, didactic games and tests.

The university monitors the progress of students in the educational trajectory. The objectivity of the assessment of students' knowledge, transparency and adequacy of the tools and mechanisms for their assessment is ensured by regulatory documents on the organization of credit technology of education. The dynamics of student performance in recent years is observed (Table 5).

However, the university has not developed a provision for conducting creative examinations.

Table 5. Indicators of student performance

Academic year	Quality of knowledge%	Performance						
	1 course		2 course	3 course	4 course	1 course	2 course	3 course	4 course
5B070300 -»Information Systems"								
2015-2016	80		85	86	90	98	87	95	100
2016-2017	85		84	88	92	97	93	80	98
2017-2018	85		90	84	91	100	97	86	95
6M070300 -»Information Systems"								
2015-2016	85		89	90	94	100	88	100	100
2016-2017	80		84	85	87	90	100	88	100
2017-2018	83		88	85	82	100	100	100	92
5B070400 - "Computer Engineering and Software"								
2015-2016	89		90	94	92	100	100	96	100
2016-2017	84		85	87	100	100	90	100	100
2017-2018	80		75	82	87	95	91	89	100
6M070400-»Computer Engineering and Software"								
2015-2016	87		90	94	92	100	100	96	100
2016-2017	84		85	81	100	100	90	100	100

2017-2018	80	85	82	87	95	91	94	84

Table 6. ICA results

Academic year	Total of students	Appeared on the state.Exam	Appeared to protect the thesis project / work	The results of the state exam					The results of the graduation project / work				
				Fine	Good	Satisfactorily	Not satisfactory	Average score	Fine	Good	Satisfactorily	Not satisfactory	Average score
5B070300-»Information Systems"													
2015-2016	12	12	12	four	eight	-	-	3.3	6	6	-	-	3.4
2016-2017	29	29	29	21	eight	-	-	3.58	17	12	-	-	3.43
2017-2018	47	47	47	39	eight	-	-	3.7	34	13	-	-	3.58
6M070300-»Information Systems"													
2015-2016	6	6	6	four	2	-	-	3.67	6	-	-	-	four
2016-2017	five	five	five	five	-	-	-	four	five	-	-	-	four
2017-2018	four	four	four	3	one	-	-	3.58	2	one	one	-	3.10

5B070400-»Computer Engineering and Software"													
2015-2016	24	24	24	18	6	-	-	3.3	18	6	-	-	3.6
2016-2017	31	31	31	17	14	-	-	3.45	sixteen	15	-	-	3.32
2017-2018	29	29	29	21	eight	-	-	3.45	sixteen	13	-	-	3.32
6M070400-»Computer Engineering and Software"													
2015-2016	9	9	9	2	7	-	-	3.26	eight	one	-	-	3.74
2016-2017	eight	eight	eight	7	one	-	-	3.75	7	one	-	-	3.75
2017-2018	four	four	four	3	one	-	-	3.58	3	-	one	one	3.35

EP students have full information about the list of disciplines of the module and their codes, prerequisites, goals and content. Students are informed about the form of control and the necessary teaching aids, as well as the main learning outcomes.

- Within EP 5B070300 / 6M070300 - Information systems, 5B070400 / 6M070400 - Computing equipment and software planning of the educational process is aimed at ensuring the full and timely implementation of curricula and programs in full and includes planning:

- educational and academic activities aimed at the theoretical development of educational programs by students;

- educational and practical activities that allow to master production skills and acquire competences for professional activities;

- educational activities aimed at the knowledge and awareness of universal values, the cultivation of respect and patriotism, increasing the level of language training. When organizing training for each module of the EP, a preliminary analysis of the teaching and methodological provision is carried out: the presence of EMCD, syllabus, current, mid-term and final control questions, tasks for SRO.

Every year, students take part in the Republican subject olympiads, competitions of research projects (Appendix 36- Participation in the Republican subject olympiads, competitions of research projects).

1. Student of the EP 5B070400 - Computer Engineering and Software Jusip Nurbek participated in the Republican subject Olympiad and took 2nd place, 2017

2. Student EP 5B070400 - Computer Engineering and Software Sagat Baimbet participated in the Republican subject Olympiad and took 1st place, 2018.

3. In the IV International Scientific and Practical Competition “Scientific Achievements and Discoveries of 2018”, student student EP 5B070300 - Information Systems Toleu Nurgul participated in the research project “Creating a Web Site on Macromedia Flash»and took 1st place, Penza, RF, 2017

4. In the IX Republican scientific-practical competition “Flym sharaynasy” student EP 5B070300 - Information systems Toleu Nurgul participated and took 1st place, Astana, Kazakhstan, 2017

At Korkyt Ata KSU, the system for monitoring and assessing students' knowledge is consistent with generally accepted principles and criteria for evaluation, objective and transparent. According to the results of interim certification (final control), the office of the registrar is the academic rating of students. The academic rating of students serves as the basis for obtaining various academic benefits and advantages (increased scholarship, etc.) established by the decision of the University Academic Council.

The university has a system of internal monitoring of the quality of knowledge. The educational registrar of the educational process is responsible for educational monitoring, which organizes current exams and monitors their progress, records the movement of the student contingent, conducts intermediate and final control in all specialties, compiles semester summary reports, analyzes the academic indicators of sessions, final assessments, control sections of knowledge students, determines the average passing score (GPA).

For the period of the examination session (intermediate certification), by order of the head of the university, an appeal commission is created from among the teachers, whose qualifications correspond to the profile of the appealed disciplines.

The student, who does not agree with the result of the final control, makes an appeal no later than the next working day after the examination. The control of knowledge, skills and competencies of graduates is carried out in the period of final certification. Final certification of graduates is carried out in the period established by the academic calendar and curriculum of the specialty. Students who have fully complied with the requirements of the curriculum and programs are allowed to final certification. Final certification for the

accredited EP 5B070300 / 6M070300- Information systems, 5B070400 / 6M070400 - Computing equipment and software is carried out in the form of passing state examinations in specialties and additionally in two major disciplines.

Analytical part

Student-centered learning requires the empowerment of students, new approaches to teaching and learning, effective support and guidance structures, and training programs that are more clearly focused on the student. All this is not reflected in this action plan.

The system of student self-government is aimed at raising an active citizen who associates his life and fate with the life of society and the state, is responsible for the processes and learns to make decisions.

Student-centered training assumes that the teacher in this educational process is a consultant (tutor) who only closely observes the student and directs his activity in one direction or another.

At the university, the formation of an individual educational trajectory of students under the OP. However, innovative methods of teaching and conducting professional practices are not sufficiently applied.Demonstrated mechanisms for assessing learning outcomes, appeals, transparency of criteria and assessment tools that require improvements.

Practice places do not always correspond to the profile and level of the specialty.

The management of EP provides students with transparency and accessibility to the results of the assessment, the ability to assess the professional qualities of the teaching staff, as well as the level of material and technical support of the educational process. However, the majority of students are not aware of their ability to choose an individual trajectory, as well as the choice of a teacher, scientific leaders, and the form of final certification.

Also, experts noted that the qualifications of teachers do not always meet the requirements of the discipline. For example, core courses at the 3-4 year course are taught by teachers without a degree.

It should be noted that Smart-learning is a new paradigm of education. The course on the development of SMART education today was taken by many states, and Kazakhstan as well. The model of a new Smart-society implies the creation of an intelligent, high-tech, comfortable human environment with the help of modern information and organizational systems. The tasks are to be solved by specialists who are able to generate new ideas, knowledge and intellectual capital using modern technologies. To implement the system of smart education in universities, it is necessary to teach this faculty. A smart teacher (student) is a participant in the educational process who constantly uses technological innovations and the Internet to achieve a new quality of the educational process that meets the requirements of the Smart Society. Smart learning issues are not considered at KSU. In this connection, the primary task of KSU, including the department, is the organization of professional retraining or advanced training (at least 72 hours):

a) faculty members - for teaching in a new information and educational environment;

b) educational support staff - to work with distance education technology.

The decision of the Academic Council of KSU to replace the diploma design with a state exam for technical specialties is not at all clear. After all, it is the course and diploma design that allows you to form the knowledge and skills necessary for a technical specialist. The introduction of the collective implementation of course and diploma projects allows us to develop the skills of collegial work in small groups. For the most part, future graduates have to work in small groups.

New technologies require new knowledge, skills, and abilities that the student must acquire within the walls of his native university. Unfortunately, the curriculum does not

reflect such currently required knowledge as IT project management, innovation project management, company management, human-computer interaction, architecture of parallel computing systems, actuary mathematics, data science, non-relational databases.At the same time, the curriculum includes disciplines that are not directly related to the specialties that are taught at the department: 5B070400-»Computing equipment and software":»Systems of automatic control of technological processes",»Repair and installation of cable networks»in the direction 5B070300»Information Systems»-»Software Development".

The members of the EEC revealed that, according to the schedule of classes, students of the Kazakh and Russian languages are simultaneously studying. The department has no schedule of independent work of students. Criteria and methods for assessing learning outcomes in the framework of accredited EPs were not approved, it was found that QED for the same EP duplicates the Model Curriculum, i.e. includes disciplines compulsory component.

Graduates of KSU should have the opportunity not only to continue their studies in a master's or doctoral studies, but also to improve their qualifications in their chosen specialty. It is desirable to create conditions for them, tEPrepare not only popular courses, but to organize convenient forms of training for them: distance learning, face-to-face network, mobile.

Strengths / Best Practices

- within the framework of this Standard no strengths have been identified.

EEC recommendations

According to EP 5B070300, 6M070300 - “Information systems”, 5B070400, 6M070400 - “Computing equipment and software”:

- given that online learning gives a feeling of freedom and control over the process of its development, which is one of the key motivators in obtaining the desired result, the department needs to include in the educational process the possibility of integrating MOOC with curricula;

develop a program to support graduates for their subsequent professional development;

develop and place on the website of the department criteria and methods for assessing learning outcomes in the framework of EP

It is recommended to introduce course design for special disciplines of specialties 5B070300-»Information systems", 5B070400-»Computing equipment and software"

introduce the mandatory implementation of the graduation project for the specialties 5B070300-»Information Systems", 5B070400-»Computer Engineering and Software"

to reconsider the need to teach the following elective disciplines for the specialty 5B070400- “Computer Engineering and Software”: “Systems of automatic control of technological processes”, in the direction “Development of software” - “Repair and installation of cable networks”;

preferably for the introduction of specialties 5B070300-»Information Systems", 5B070400-»Computer Engineering and Software»exclusive courses such as: IT Project Management, Innovative Project Management, Company Management, Human-Computer Interaction, Parallel Computing Systems Architecture, Actuarial Mathematics, Data Science, Non-relational databases;

It is necessary to develop a Regulation on the organization of the educational process at KSU with the use of distance learning technologies for bachelors, masters and doctoral students, as well as the preparation of guidelines for the use of modern distance learning technologies in the educational process;

It is recommended to develop programs for advanced training courses for teaching staff: 1. “Distance learning technology”, 2. “Mobile pedagogy: Modernization of pedagogical tools and resources for mobile learning”;development of the program for advanced training of administrative and managerial personnel: “Organization of work in the system of distance learning”.

Conclusions EEC on the criteria:

According to the standard»Student-centered learning, teaching and assessment of progress»10 criteria are disclosed, of which educational programs are accredited: - 5B070300, 6M070300-»Information systems", 5B070400, 6M070400-»Computing equipment and software»have 6 satisfactory positions and 4 - assume an improvement.

6.6 Standard»Students"

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

The EP's management should demonstrate the implementation of special adaptation and support programs for new-comers and foreign students.

The university must demonstrate the compliance of its actions with the Lisbon Recognition Convention.

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

EP management must demonstrate the presence and application of a mechanism to recognize the results of academic mobility of students, as well as the results of additional, formal and non-formal education.

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

The management of EP should make the maximum amount of effort tEProvide students with places of practice, to facilitate the employment of graduates, to maintain communication with them.

The university must provide graduates of EP with documents confirming their qualifications, including the achieved learning outcomes, as well as the context, content and status of the education received and evidence of its completion.

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

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

An important factor is the existence of a valid alumni association / association.

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

The evidence part

The educational activity of the university is based on an academic policy aimed at meeting the need for quality education for students and undergraduates in EP 5B070300 / 6M070300 - Information Systems, 5B070400 / 6M070400 - Computing Machinery and Software. The formation of a contingent of students is carried out by placing the state educational order for the training of scientific personnel, as well as paying tuition at the expense of citizens' own funds and other sources. Admission to training in the undergraduate degree at KSU for graduates of schools is carried out by full-time students, graduates of colleges and universities, by full-time and distance education under reduced educational programs. Entrants to the university for undergraduate educational programs must have knowledge in the volume of high school, confirmed by the necessary number of points in the unified national testing (UNT) or integrated testing (CT).

The policy of forming a contingent in a higher education institution is governed by the Model Rules for Admission to Education in Educational Organizations Implementing Educational Programs of Higher and Postgraduate Education, approved by Decree of the

Government of the Republic of Kazakhstan No. 109 of January 19, 2012) and is reflected in the Rules of admission to Kyzylorda State University.

Admission to training in the undergraduate degree at KSU for graduates of schools is carried out by full-time students, graduates of colleges and universities, by full-time and distance education under reduced educational programs. Entrants to the university for undergraduate educational programs must have knowledge in the volume of high school, confirmed by the necessary number of points in the unified national testing (UNT) or integrated testing (CT).

At the department every year, traditionally for the professional orientation of high school students, systematic career guidance is conducted. An explanatory work is organized among graduates of schools in Kyzylorda and Kyzylorda Oblast: meetings with schoolchildren, parents and teachers are held

The contingent of students is formed from groups, training in which is conducted in the state, Russian languages by full-time and correspondence. The University conducts systematic work on the collection and analysis of statistical data on the contingent of students and graduates.

Members of the Alumni Association, graduates of specialties of different years actively participate in the policy of forming a contingent. During the work of the admissions committee, according to the approved schedule, the teaching staff of the university conduct introductory courses for applicants on the content and features of studying educational programs. For applicants and their parents prepared reference books of specialties in Russian and Kazakh languages, containing information about the features of specialties, as well as future professional activities. In addition, during the school year, there are regular meetings of experienced teachers with graduates of schools and colleges, subject Olympiads, contests and seminars, videEPresentations, and Open Days are held. According to the results of vocational guidance work of the departments, a database of graduates is being formed.Information about the rules and conditions of admission to the bachelor and master's programs, a list of necessary documents, a list of specialties, entrance examination programs in the Kazakh and Russian languages, schedules for taking exams, regulatory documents, announcements, etc. They are placed in advance on the official website of the university in the section “Applicant” (www.korkyt.kz), information boards of the admissions office. In addition, information on admission to the university can be obtained from technical secretaries working in the selection committee and from those responsible for vocational guidance. The list of specialties, the deadline for accepting documents and benefits for entering the university are published in the newspapers»Syr Boyi",»Kyzylorda News",»Syr Telegy"; commercials are broadcast on the channels “Kyzylorda-Kazakhstan”, “Kogam-TV”.Admission to the university is carried out by the selection committee from 10 to 28 August.

Table 7. The contingent of students of the educational program EP 5B070300, 6M070300-»Information Systems"

Form of study	Contingent of students					
Full time	2015/2016 academic year		2016/2017 academic year		2017/2018 account G.	
	to / about	n \ i	to / about	n \ i	to / about	n \ i
	53	56	61	54	56	53
Number of grants	2	4	1	3	3	5
Remote	4	-	7	-	6	-
Master's	10	-	5	-	7	-

Number of grants	8	-	4	-	5	-
TOTAL	123		127		122	

Table 8. The contingent of students of the educational program 5B070400, 6M070400 - “Computing equipment and software”

Form of study	Contingent of students					
academic year	2015/2016 academic year		2016/2017 academic year		2017/2018 academic year	
language of instruction	to / about	n \ i	to / about	n \ i	to / about	n \ i
full-time	45	54	52	41	49	27
Grant	2	4	2	4	2	5
remote	32	-	27	-	12	-
Master's	17	-	12	-	8	-
Number of grants	13	-	9	-	6	-
TOTAL	148		132		96	

The organization of educational work is carried out in accordance with the normative materials of the MES RK. In order to ensure the growth of the quality of the educational services provided, a systematic survey is conducted regarding the satisfaction of students with the quality and conditions of education.

Student scientific work, educational and creative workshops are one of the forms of organization of research work of students (Table 9).

Table 9. The number of scientific publications, students (for the academic year)

Educational program
5B0703000, 6M070300-»Information systems"
5B070400, 6M070400 - “Computer Engineering and Software”

Every year the university holds student conferences, where students and undergraduates actively participate. So, in the 2017-2018 academic year, 26 students participated in student conferences, of which, in computational engineering and software, 16, Information Systems - 10. The system of motivation to attract students to research and development was formed. Research work of students is conducted in accordance with the annually approved thematic plans of the departments. Students of the 1st course from the first days of learning master the means and methods, techniques and procedures for carrying out research: on the instructions of teachers perform research work related to theoretical disciplines.In the 2017-2018 year, at the annual student conference, a student of the VTPO-15-1p / 3 group of the 3rd year courses on the EP 5B070400-Computing equipment and software Ardak Abdukarimov took the first place.

One of the most important areas of training highly qualified specialists and the formation of a comprehensively developed personality is educational work with students. Educational work is carried out according to the Concept of educational work of the Korkyt Ata Kyzylorda State University. Every year a plan of educational work of the university is drawn up in 6 areas of education. In the educational work of the university, a special place is given to spiritual education. Students of EP»5B070300 / 6M070300-Information Systems, 5B070400 / 6M070400-Computers and software are involved in various activities

to develop and improve the personality of the student (undergraduate), which are held by the departments in student dormitories.

Representatives of the pedagogical detachment»Ulagat арылandary»during the summer holidays work as counselors in children's recreation camps located in the Kyzylorda region. The university has adopted the program “Formation of a healthy lifestyle”, according to which the “Freshman»Olympics is held annually in 8 sports among first-year students. For university students there are 12 sports sections. Every year, the university hosts the festival “Golden Autumn”, “Student Spring”, KVN competitions, various celebrations, recitals, competitions in which students of the department take an active part.

The student government of the university is well developed. University students cooperate with youth organizations in the city, region, participate in contests, festivals, meetings, literary readings, conferences.

Introductory courses in the disciplines of EP allow students to harmoniously engage in the educational process. According to EP 5B070300 / 6M070300-Information systems, 5B070400 / 6M070400-Computing equipment and software the discipline»Algorithmization and programming",»System programming",»Databases in information systems",»Fundamentals of information security",»Artificial neural networks", according to which students learn the basics of technological, technical, computer and information sciences and get a general idea of the main directions of modern scientific and technological progress.

The provision of academic mobility is in its infancy. Contracts have been concluded with partner universities of the Republic of Kazakhstan (Table 10).

Table 10 Data on academic mobility

No	FULL NAME. the student	Direction of programs learning	Level of study (bachelor degree	Group number, course	Country and foreign university in which the student studied for the exchange	Mob phone	E-mail
one	Ashimova Moldir	Academic mobility	Undergraduate	VTPO-11-2,3	Poland, Lodz University of Lodz 28/09 / 2013-21 / 01/2014	87779770901	moldir.skw@mail.ru
2	Malybaev Ibrahim	Academic mobility	Undergraduate	VTPO-12-1p / i, 3	Poland, Lodz University of Lodz 15/02 / 2014-30 / 06/2014	87773854940	Kz_77@inbox.ru
3	Turekhanova Ayfara	Academic mobility	Undergraduate	IS 12-1p / i, 3	Austria, Zalzburg University	87013402893	Aifara_turekhanova@mail.ru

four	Aldanova Altynshash	Academic mobility	Undergraduate	VTPO 13-1p / i, 2	Republic of Turkey, Akdeniz University 11/11 / 2015-29 / 02/2016	87718216445	Altynshash130695@mail.ru
five	Zhanabaeva Akbota	Academic mobility	baccalaureate	IS 13-1p / i, four	Republic of Turkey, Erzurum, Ataturk University 21/10 / 2016-17 / 02/2017	87784783519	Bota_zhanabaeva@mail.ru
6	Syzdykova Zaure	Academic mobility	baccalaureate	IS-14-3, 2	Kazakh National Agrarian University	87052081333	zaure_kz97@mail.ru
7	Maulenova Tansholpan	academic mobility	baccalaureate	IS-14-3, 2	Kazakh National Agrarian University	87070323463	tansholpan_96_love@mail.ru
eight	Nurmakhanova Dinara	Academic mobility	baccalaureate	IS-14-5, 3	Kazakh State Women's University	87025271016	dinara_97.16@mail.ru

The university has a graduate employment promotion service. The university pays attention to the monitoring of annual employment and direct and feedback from the labor market, which allows to monitor the compliance of strategic plans with the actual demand in the educational market.

An important factor in promoting the employment of graduates (Table 11) is the further support of communication with them through the website http://www.korkyt.kz . The university holds an annual job fair for future graduates, where representatives of enterprises, institutions and organizations of the city and region take part.

Table 11 Graduate Employment Indicators

Specialty	2015-2016			2016-2017			2017-2018		
	Total	employment	%	Total	employment	%	Total	employment	%
5B070300 - Information Systems	12	ten	83.3	29	21	72.4	47	34	72.3
5B070400 - Computing and	24	22	91.6	31	25	80.6	29	27	93.1

software									
6M070300 - Information Systems	6	6	100	five	five	100	four	four	100
6M070400 - Computers and Software	6	6	100	eight	eight	100	four	four	100

The results of the survey of students conducted during the visit of the EEC IAAR, showed that:

The availability of academic counseling “Fully Satisfied»- 68.5%, “Partially Satisfied»- 29.4%, “Partially Not Satisfied»- 1.4%, “Not Satisfied»- 0%;

continuous assessment (seminars, tests, questionnaires, etc.) reflects the course content

- responsiveness to feedback from teachers regarding the educational process “Fully Satisfied»- 72%, “Partially Satisfied»- 25.9%, “Partially Not Satisfied»- 1.4%, “Not Satisfied»- 0.7%.

Analytical part

The policy of forming a contingent at a higher educational institution is regulated and reflected in the Academic Policy of a higher education institution. The principles of creating an educational environment for students to achieve the required professional level, methods of feedback and informing students, aspects of the cultural and social life of students are presented. The university assesses communication with employers; patriotic, civil, spiritual, moral, sports and recreational activities are held; students actively participate in youth creative and research competitions and conferences.

In addition, it should be noted that the use of distance learning for undergraduates is not legitimate, since according to the position they must be trained in person.

Does not function in the university Alumni Association. Interviewing graduates revealed that they do not know about the existence of the Alumni Association. There are no records on the activities of the Association.

There is no section on the website of the university contributing to the effective “postgraduate support”, monitoring the career growth of graduates, and organizing work with employers.

The university does not have the practice of forming an electronic portfolio of personal achievements of students in a private office on the university website, which complicates the employment process.

The educational process has a weak focus on the development of students' communicative abilities, teamwork skills, and the presentation of educational and scientific materials in oral and written form.

In the educational process, it is necessary to focus on the development of students' communicative abilities, teamwork skills, and the presentation of educational and scientific materials in oral and written form. The students themselves stated at the accreditation meeting that they want to be more busy at the university.

Academic attention should be focused on facts and methods and problem solving and on developing solutions, rather than on programming and using software applications as such.

Students must learn English at least at the intermediate level.

Special attention should be paid to students with disabilities. Most buildings, classrooms, laboratories are not suitable for students with disabilities. For them, a concept of recognition must be developed. This may be an idea for student work in the classroom.

Students are encouraged to work in groups tEPrepare concepts and software solutions. Programming in the industry means working in groups. Professional solutions are never made by just one person, but only in teams. Evaluation of work should be transparent and understandable so that you can evaluate the work of the group. Students should work with self-assessed and / or in group homework, ie:

- exercises according to the programs
- prepare presentations,
- read materials in English,
- development of prototypes, codes, test procedures ...
- student exercise solutions and design work should not be developed in the classroom, at the same time they should be supervised by a teacher or more experienced students who have already completed this course with good grades;
- Students should be trained in the use and application of research methods.

Qualification is the level of knowledge, skills, professional skills and work experience of the employee. Professional standard - the characteristic of the qualifications required by the employee to carry out a certain type of professional activity. The professional standard defines the regulatory criteria for assessing the qualifications of workers. The level of qualification is the degree of professional skill within a specific degree of qualification. The essential characteristics of the qualification level are: the amount of knowledge and skills; quality of knowledge and skills; ability to rationally organize and plan work; ability to quickly adapt when changing technology, technology, organization and working conditions

In view of the above, the university should provide graduates with a certificate of qualification, including the learning results achieved.

It should be noted that some classes at KSU are already held in English, but at the same time it is necessary to remember that the teacher must speak English almost all the time, and that students are also encouraged to do this all the time. Students must answer in English.

Students should be encouraged to be more open and sociable in their own language, and then in English. Since this takes time, appropriate actions should be started as early as possible.

Strengths / Best Practices

- within the framework of this Standard no strengths have been identified.

EEC recommendations

According to EP 5B070300, 6M070300 - “Information systems”, 5B070400, 6M070400 - “Computing equipment and software”:

- take measures to enhance the activities of the Alumni Association (plan, protocol, report, etc.);
- to ensure the creation of dialogue platforms for the exchange of views through modern technologies;
- to conduct seminars for students»How to live and learn in an era of rapidly developing digital technologies and understand their strategy of behavior in the digital world";
- develop a Regulation on support mechanisms for gifted students;
- to draw up a plan for the formation of a contingent of students, to strengthen the work with schools, to carry out the popularization of the program;

- To Pay decent attention to students with disabilities, this will require a number of changes and adjustments in not only the educational process, but also the preparation of buildings, laboratories, classrooms. It is necessary to arrange comfortable ramps, install additional electronic boards in separate classrooms, create rest rooms, adjust toilets, etc.

- it is necessary to strengthen language training, especially in English. Practice practicing coursework, degree projects and dissertations in English.

- The graduating department should actively encourage students to self-education and development outside the main EP.

Conclusions EEC on the criteria:

According to the "Students»standard, 12 criteria are disclosed, of which the accredited educational programs are 5B070300, 6M070300 - "Information Systems", 5B070400, 6M070400 - "Computing Engineering and Software" have 7 satisfactory positions and 5 - suggest improvement.

6.7 Standard»Teaching staff"

The university should have an objective and transparent personnel policy, including in the context of the EP, including hiring, professional growth and staff development, ensuring the professional competence of the entire state.

The university should demonstrate the compliance of the staff potential of the faculty with the development strategy of the university and the specifics of the EP.

EP management must demonstrate an awareness of responsibility for its employees and ensuring favorable working conditions for them.

The management of EP should demonstrate a change in the role of the teacher in connection with the transition to student-centered learning.

The university should determine the contribution of teaching staff to the implementation of the university's development strategy, and other strategic documents.

The university should provide opportunities for career growth and professional development of teaching staff of the OP.

The management of EP should involve practitioners from relevant fields in the teaching.

The management of EP should provide targeted actions for the development of young teachers.

The university should demonstrate the motivation of professional and personal development of teachers of EP, including the promotion of both the integration of scientific activities and education, and the use of innovative teaching methods.

An important factor is the active use of teaching staff in the educational process (for example, on-line training, e-portfolio, MEP, etc.).

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

An important factor is the involvement of teaching staff in the community (the role of teaching staff in the education system, in the development of science, the region, creating a cultural environment, participation in exhibitions, creative competitions, charity programs, etc.).

The evidence part

The Commission got acquainted with the qualitative and quantitative composition of the teaching staff of the EP, planning the load of teaching staff, monitoring the quality of teaching, methods of assessing the satisfaction of teaching staff and students, and the policy of forming the staff of teaching staff.

The hiring and assessment of the faculty is carried out on the basis of the Order of the Minister of Education and Science of the Republic of Kazakhstan dated April 23, 2015 No. 230 (with changes and additions dated October 04, 2014, No. 536) "On Approval of the Rules for Competitive Replacement of Prof. composition and researchers of higher educational institutions».

The University carries out personnel policy in accordance with the priorities of the University's Development Strategy, conducts purposeful work on the training and

retraining of scientific and pedagogical personnel. The peculiarity of teaching staff is academic continuity - training of own personnel through the involvement of masters and doctoral students in scientific and educational activities.

The Computer Science chair has all the conditions for the development of young teachers. Annually it is planned to enroll in the magistracy and the target doctoral studies of young teachers. Formed requests for admission to the target doctoral studies of young teachers.

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

According to the results of the survey of faculty members conducted in the framework of the activities of the EAPAAAA, it is noted that the university provides equal opportunities for all faculty members in "Very Good" (45.1%) and "Good»(51%). the adequacy of the recognition of the capacity and abilities of teachers is evaluated by the university: "Very good" (47.1%) and "Good»(46.1%).

According to the staff list of the EP are staffed with faculty for the entire period of study. However, indicators on the qualitative and quantitative composition of teaching staff do not confirm compliance with the qualification requirements necessary for the implementation of accredited educational programs. At the same time, the university attracts production professionals to conduct classes.

The average indicator of the degree of teaching staff of the graduating department of the accredited PE is 48% (Table 12).

Table 12. The number of faculty as of 11/01/2018

Graduate department	Average age	Total PPP	Qty full-time PPP	Faculty with academic degrees			
				Number of staff Faculty with academic degrees	doctors of science	candidates of science	% degrees
Computer science	37	23	nineteen	eight	3	eight	48

The main indicators of the success of the implementation of personnel policy are improving the quality of faculty. In this direction, the university carries out purposeful work, as evidenced by the steady qualitative growth of faculty, a summary of faculty members are presented on the university website.

The departments are assigned the functions of organizing the selection, regulation of the structure of staff, determining and managing the qualitative composition of the teaching staff, advanced training, distribution of the teaching staff according to educational programs, managing staff load, creating conditions for professional growth, monitoring, monitoring and assessing the quality of faculty - teaching staff, organization of labor incentives.

The educational program of accredited specialties is provided by faculty members who have awards and certificates. At the Computer Science department there are 3 state grant holders of the Ministry of Education and Science of the Republic of Kazakhstan "The best teacher of the university":

- Tureshbaev A.T. - holder of the state grant»The best teacher of the university of the Republic of Kazakhstan»2007;

- Daurenbekov KK - the owner of the state grant»The best teacher of the university of the Republic of Kazakhstan»2013;

- Ostaeva AB - the owner of the state grant»The best teacher of the university of the Republic of Kazakhstan»in 2011.

According to the results of the annual university ranking in 2017, the title of "The best teacher of KSU. Korkyt Ata»from the faculty with the award of the badge»The best teacher of Korkyt Ata KSU, a medal of the Ministry of Education and Science of the Republic of Kazakhstan»Enbek ardageri»2017 was awarded tEPh.D., Ph.D. . Associate Professor Turesbayev A.T. In order to encourage and morally stimulate workers in the field of education and science, the gold medal»Korkyt Ata Altyn Medal»was awarded to Tureshbaev AT, Daurenbekov K.K. and Makhambaeva I.U. Daurenbekov K.K. Awarded the Certificate of Honor of the Ministry of Education and Science of the Republic of Kazakhstan (Appendix 28 - Awards of teaching staff). Ph.D., and. Associate Professor Abdilda Tureshbaevich Tureshbaev is an expert of the National Center for State Scientific and Technical Expertise of the Ministry of Education and Science of the Republic of Kazakhstan.

To monitor the competence of university staff by the administration, the personnel department and the heads of relevant departments, the competence of existing staff and its compliance with the requirements set by job descriptions is periodically evaluated by attending "open»classes, mutual attendance of classes, questioning students and others.

The University has developed a "Regulation on staff development at KSU", however, the CCP under the accredited EP is not fully implemented. At the department there are young teachers who have graduated from the magistracy.

According to the results of the survey of faculty members, organized by the EEC of the IAAR, teachers evaluate the support of the university and its leadership in research initiatives

Faculty staff on "very good" - 49.0%, "good»- 48%, in the development of new educational programs "Very good" - 59.0%, "Good»- 38.2%.

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

Table 13. The number of scientific publications of the faculty of the department

	2015/2016	2016/2017	2017/2018
In international scientific journals Tomson Reuters, Scopus	four	6	2
High-ranking journals (RISC, etc.)	ten	15	14
Magazines recommended by KKSON MES RK	five	four	3
Magazines near and far abroad	one	2	one
International conferences	17	15	18
Monographs	2	-	-
Tutorials	2	one	-
Electronic textbooks	-	five	-
Total	41	48	38
	2015/2016	2016/2017	2017/2018

Table 14. Advanced training in educational programs

Graduate	2014-2015 academic year	2015-2016 academic year	2016-2017 academic y

department	Total staff PPP	Improved qualifications, full-time faculty	Percent, %	Total staff PPP	Improved qualifications, full-time faculty	Percent, %	Total staff PPP	Improved qualifications, full-time faculty	P
Computer science	26	23	88	18	sixteen	89	18	17	9

The state of the moral and psychological climate at the department is characterized by stability, creative attitude to the performance of their duties. Labor and performing discipline at the proper level. University professors take an active part in the public life of the city and the Republic. At the same time, experts noted that the administration of the EP recognizes the responsibility for its employees and creates favorable conditions for them to work on the basis of interviewing faculty and infrastructure review.

A survey of faculty members conducted during the visit of the EAP IAAR showed that:

- PPS satisfies the content of the educational program for “very good” - 60.8%, “good»- 38.2%;
- the level of feedback of the faculty with management satisfies to “very good” - 46.1%, “good»- 76.5%;
- Teachers can use their own innovations in the learning process on “very good” - 69.6%, “good»- 28.4%;
- How is work on academic mobility put at “very good” - 47.1%, “good»- 51%;
- How is the work on advanced training of teaching staff set for “very good” - 52.9%, “good»- 39.2%;
- The involvement of faculty in the process of making management and strategic decisions on “very good” - 41.2%, “good»- 56.9%.

Analytical part

The faculty of the university on the degree of special and major disciplines, IT-competence is fully consistent with the requirements.

The experts noted the need to improve the professional skills of personnel on an ongoing basis in the areas of specialization in the leading scientific centers of the Republic of Kazakhstan and abroad. The following discrepancies were also found by the EEC members:

- when conducting specialized classes at the accredited EP, teachers with a scientific degree are not sufficiently or not at all involved;
- insufficient level of academic mobility of teaching staff of the accredited educational institutions; few take part of teaching staff in foreign scientific projects;
- individual plans and final reports of the faculty are drawn up formally. The wording is missing specifics. The final reports are not analyzed by the EP management, corrective and preventive measures are not taken on them;
- teachers must teach students how to search for information on the Internet and in the library. This can also be offered as an extracurricular seminar. It should be noted that Wikipedia is not considered a reliable source of research for citations, but may provide interesting links to resources.

- The faculty of the department needs to develop students' deep understanding of digital environments, the ability to intuitively adapt to new conditions and create new educational content.

Strengths / Best Practices

- within the framework of this Standard no strengths have been identified.

EEC recommendations

According to EP 5B070300, 6M070300 - "Information systems", 5B070400, 6M070400 - "Computing equipment and software":

- taking into account that the use of ICT in the educational process corrects the teaching methods, introduce into the practice of the activity of the department permanent seminars for teaching staff on teaching methods using ICT;
- faculty of the department to take an active part in the creation and implementation of online learning, mobile and blended learning at the department;
- given that the key problem in introducing new teaching methods is teaching staff, it is necessary to develop motivational criteria for attracting them to this activity;
- take measures to attract faculty with an academic degree and academic title;
- to expand the use of information and communication technologies in the educational process;
- to continue work on the systematic training of faculty;
- revise the system for assessing the quality of teaching staff and material incentives for achieving high results, for example, for publishing scientific articles in journals with a high impact factor, in order to ensure its transparency;
- as part of the implementation of the state multilingual program for the accredited EPs, develop a work plan aimed at increasing the level of proficiency of the faculty in foreign languages and providing for the development, publication and acquisition of specialized literature;
- finalize the procedure for assessing the competencies of teaching staff qualifications in accordance with the requirements of the level of training;
- to continue the work on the wide involvement of highly skilled production specialists in educational activities, for giving lectures on specialized subjects;
- to summarize the experience of conducting webinars with the aim of applying them to undergraduate and doctoral students, attracting highly qualified production personnel to give lectures;
- to start the development of educational MEP, control materials (tests, practical tasks) for ICT specialty courses;
- it is recommended to develop a Concept for training undergraduates, doctoral students of KSU in the SMART learning environment.

Conclusions EEC on the criteria:

According to the standard "Teaching staff", 12 criteria are disclosed, of which educational programs are accredited:

- 5B070300, 6M070300- "Information systems", 5B070400, 6M070400- "Computing equipment and software" have 9 satisfactory and 3 suggest improvement.

6.8 Standard»Educational Resources and Student Support Systems"

EP management must demonstrate the adequacy of material and technical resources and infrastructure.

EP management must demonstrate the availability of support procedures for various groups of students, including information and counseling.

The EP management must demonstrate the compliance of information resources with the specifics of the EP, including compliance with:

technological support for students and teaching staff in accordance with educational programs (for example, online training, modeling, databases, data analysis programs);

library resources, including the fund of educational, methodical and scientific literature on general educational, basic and major disciplines on paper and electronic media, periodicals, access to scientific databases;

examination of the results of research, final works, dissertations on plagiarism;

access to educational Internet resources;

WI-FI functioning on the territory of the organization of education.

The university should strive to ensure that the training equipment and software used for the development of educational programs are similar to those used in their respective fields.

The university must ensure compliance with safety requirements in the learning process.

The university should strive to take into account the needs of various groups of students in the context of EP (adults, workers, foreign students, and students with disabilities).

The evidence part

The University carries out educational activities on the basis of the long-term strategic document»Strategic Development Plan of KSU for 2017-2021". The resources of university studies correspond to the implementation plans of the study program: human, material-technical, and socio-cultural. The software used for the organization of the educational process, creation and demonstration of information content is presented. The EP is provided with educational, methodical and scientific literature on general education, basic and major disciplines on paper and electronic media in the context of training languages.

Sufficient conditions have been created to ensure the availability and quality of education, to continuously improve the skills of teaching staff and improve the efficiency of EP management at the university. Logistical, informational and socio-cultural resources correspond to the activities, mission, vision and strategy of the University and the implementation plans of the EP.

For the organization of educational activities, students are provided with a reference guide. The university has regulatory documentation on the organization and teaching and methodological support of the educational process, the organization of research and educational work, available to students in the library of the university, the department and the internal website of the university.

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

Currently, the university operates the E-univer electronic university system, developed by the software department of the Korkyt Ata Kyzylorda State University. It includes such subsystems as the rector's blog, blogs of the heads of departments, information systems of the dean's office, department, teacher, student, applicant, as well as electronic document management, electronic library and electronic public services.

All the latest news and announcements are published on the website of the university, as well as immediately duplicated in social networks. When publishing on a social network, sharing and repost is done on all thematic groups. To attract foreign students, every year the university management agitates applicants from bordering states, including Urumqi (PRC), Nukus (Uzbekistan), Russia, etc.

And for academic mobility, students and undergraduates receive information from advisors, heads of departments and from the dean's office. In all faculties and departments, the student for the rapid exchange of information are combined in social messengers. As

well as the university, via the SMS-sending service, it sends the necessary information to the focus groups interested.

The scientific library of the university has educational literature, educational and methodical literature on the cycle of general education, basic and major disciplines, socio-political, popular science and specialized periodicals. The university's scientific and technical library has 5 reading and 3 electronic rooms for 700 seats.

Fund of the Scientific and Technical Library of the Kyzylorda State University Korkyt Ata is 2202483 copies of educational, educational and scientific literature. 1091854 units in the state language, i.e. 49.6%. Students, faculty members and employees actively use materials of electronic publications, such databases as Thomson Reuters, Scopus, Springer Link, EBS»Lan", EBS»University Library Online,»scientific electronic library eLIBRARY.RU, POLPRED, for educational and scientific interests. .COM - review of Russian and foreign media, KazNEB, RIEL, library of the first president of the Republic of Kazakhstan, debut portals, I-kitap portals, electronic reference and bibliographic catalog "IRBIS-64»which contains more than 118560 records. Also, students, teaching staff of the departments have access to the electronic fund of the scientific library,equipped with traditional and electronic catalogs, newsletters of new products, Internet resources, etc.

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

Educational classrooms meet sanitary and hygienic standards imposed on educational audiences of universities of the Republic of Kazakhstan. The existing classroom fund of specialty specialties in general provides for the need for training rooms for students, which ensures the organization of training sessions. The total training area used complies with the standard indicators, standards of sanitary and fire service. There are conclusions SES and fire services.

Students, undergraduates and doctoral students, faculty members of departments have access to the electronic fund of the scientific library, equipped with traditional and electronic catalogs, newsletters of new products, Internet resources, etc.

Computerization of library and bibliographic processes is carried out on the basis of the automated library program»KABIS»(http://ntb.korkyt.kz:82/). The KABIS software is designed to fully automate and systematize the process of recruiting and processing the library fund, creating databases of electronic catalogs and ensuring the search for information on them.

The library structure includes such departments as the department of acquisition and scientific processing of literature, the department of maintenance and storage of the fund, the department of rare books, the department of normative-technical and patent documentation, the reference-bibliographic department, the department of electronic resources, the methodical department. For example, the collection of electronic documents is more than 1,400 documents. This includes textbooks, laboratory work, guidelines, video and audio CDs. Since 2010, the Scientific and Technical Library is part of the Republican Interuniversity Electronic Library. Information about the security of disciplines paper and electronic media are shown in table 15.

Table 15. Information about the provision of disciplines with paper and electronic media of the library of the department»Computer Science"

No	Specialty code	Name of specialties	number of books on paper	Provided by nosti disciplines	% provided ness

				edition on paper	publication on electronic carriers
1	5B0700300	Information Systems	634	8	74
2	6M070300	Computing and software	332	5	43
3	5B070400	Computing and software	702	10	60
4	6M070400	Computing and software	351	6	51

The scientific library of the university has educational literature, educational and methodical literature on the cycle of general educational, basic and major disciplines, social and political, popular science and specialized periodicals. The university's scientific and technical library has 5 reading and 3 electronic rooms for 700 seats. Fund of the Scientific and Technical Library of the Kyzylorda State University Korkyt Ata is 2202483 copies of educational, educational and scientific literature. 1091854 units in the state language, i.e. 49.6%. Students, faculty members and employees actively use the materials of electronic publications, such databases as Thomson Reuters, Scopus, Springer Link, EBS»Lan", EBS»University Library Online,»scientific electronic library eLIBRARY for educational and scientific interests.RU, POLPRED.COM - review of Russian and foreign mass media, KazNEB, RMEB, library of the first president of the Republic of Kazakhstan, debet portals, I-kitap portals, electronic reference and bibliographic catalog "IRBIS-64»which contains more than 118560 records. These data are shown in the following tables.

Table 16. Volume of the general book fund

No	Indicator	School year / ind.		
		2016-2017	2017-2018	2018-2019
1	Volume of the general book fund	72260	72608	72659
2	including in the Kazakh language	27619	27701	27720
3	including in Russian	34641	34902	34919
4	including English	10,000	10005	10020

Table 17. The provision of educational, educational and scientific literature in the context of specialties for the 2018-2019 academic year

Name specialty	Contingent		Textbooks		Scientific literature		Learning met and other lit.		Bible resources, TOTAL		Security UL + NL per student		
	kaz	n \ i	kaz	n \ i	kaz	n \ i	kaz	n \ i	kaz	n \ i	kaz	n \ i	Total
5B070300, 6M070300- »Information systems"	73	37	920	1370	501	750	120	230	1541	2350	21	63.5	84.5
5B070400, 6M070400 - "Computer Engineering and	75	20	1002	1540	408	625	145	278	1555	2443	20	122	142

Software”													

The analysis of the sufficiency and modernity of the EP resources was considered at the meeting of the Department»Computer Science", the protocols behind the numbers: №11 from 06.06.2015, №11 from 23.05.2016, №11 from 26.05.2017, №11 from 07.06.2018, No. 6, 01.21.2019

The educational process is provided by professional computer programs: Operating system, Office software package, Graphic editors, Audio-Video editors, Software for web-design and creation of visual projects, Desktop publishing system, Database management system, Anti-virus programs.

The university has its own WEB-portal on the Internet (http://www.korkyt.kz), which provides access to a single information and educational environment of the university.

Provide access to the Internet, an optical network with unlimited traffic at a speed of 200 Mb / s was conducted at the university. The total number of university computers is 1317 units that are connected to the university’s corporate network. All educational buildings and dormitories are connected to Wi-Fi wireless Internet at a speed of 16 MB / s, educational laboratory equipment, a 3D printer and a 3D scanner for technical specialties, as well as various licensed programs for work computers. This information about information security is shown in the following table.

Table 18. Information about the information security of the department»Computer Science"

Name of the indicator	indicator
Network connectivity	Yes
Internet connection speed of at least 1 Mbit / s	200 Mbps
The number of local networks	one
Total number of computing units (pcs)	85
The number of units of computing equipment used in the educational process (pcs)	85
Number of computers suitable for online (pcs)	85
Total number of computer classes	five
Availability of university electronic library	http://www.korkyt.kz/ntb/

The results of a student survey conducted during the visit of the EEC IAAR showed:

- availability of computer classes and Internet resources: “Fully satisfied»- 67.1%, “Partially satisfied»- 30.8%, “Partially dissatisfied” - 2.1%, “Not satisfied»- 0%;

- the quality of services provided in libraries and reading rooms: “Fully satisfied»- 83.2%, “Partially satisfied»- 11.2%, “Partially dissatisfied” - 4.9%, “Not satisfied»- 0.7% ;

Analytical part

In general, educational resources and support systems, students meet regulatory requirements: there are the necessary computer labs, workshops and laboratories equipped with training equipment. In the future, it is planned to open a number of new laboratories. At the same time, experts note the need to carry out work on updating the content of UML on the educational portal, providing access for students and after school hours.

The university does not provide enough opportunity for the development of inclusive education and for remotely receiving advice on the subjects being studied.

During the visit, the EEC did not demonstrate the possibility of using the Platonus system for the development of OP. It should also be noted a weak coverage area Wi-Fi throughout the university. The university is not implemented distance learning.

Not all presented laboratory equipment, software meets modern requirements.

As already noted, the department is not sufficiently provided with highly qualified teaching staff with modern practical skills and experience, all this has a negative impact on the quality of training of future specialists in the ICT field. The introduction of on-site network education would attract the necessary production personnel to conduct classes. Lectures and part of practical classes could be conducted through a webinar, and a specialist could conduct these classes in the workplace or in another convenient place. The webinar allows not only to have information about attending classes, but also to answer all student questions online. At the same time, an activity is recorded, which can be set up in the "cloud" for offline study.

The introduction of on-site network education will require a review of the Internet policy at the university, and the introduction of broadband systems.

Strengths / Best Practices

- within the framework of this Standard no strengths have been identified.

EEC recommendations

According to EP 5B070300, 6M070300 - "Information systems", 5B070400, 6M070400 - "Computing equipment and software":

- Considering that online education, blended and mobile learning are key to the success of a university, an effective strategy is needed to integrate these issues in the educational process;
- update the content of UML on the educational portal of the university by placing on it educational materials and tasks, control and evaluation materials, test tasks and other forms of control;
- tEProvide access to Internet resources via Wi-Fi throughout the university, to continue work on improving electronic document management;
- consider the possibility of opening a certified laboratory, specialized robotics rooms, the acquisition of certified software, educational laboratory equipment for all accredited EPs;
- continue work on installation of ramps for people with disabilities in the buildings of the university, guide markings and colorographic signs and signs for visually impaired students and employees;
- establish safety requirements for the operation of equipment in accordance with the regulations, standards and requirements of TR CU 010/2011;
- tEProvide broadband Internet all academic buildings of the university.
- as a result, all places of practice should be checked by the department, whether real working conditions with a workplace in companies and no fake workplaces will be offered. This should include research for practice sites in other cities and regions.
- The time for practice is recommended to increase to at least 8 weeks, the whole semester is preferable, this means a switch tEPractice-oriented training;
- it is desirable that students can receive payment from companies, this will help to improve the quality of the practice both from the point of view of the student and from the point of view of the company. If they are paid, the students will work much better and this gives much more motivation for the students.

Conclusions EEC on the criteria:

According to the standard»Educational resources and student support systems»10 criteria are disclosed, of which educational programs are accredited:

- 5B070300, 6M070300 - "Information systems", 5B070400, 6M070400 - "Computing equipment and software". have 8 satisfactory and 2 suggest improvement.

6.9 Public Information Standard

The information published by the university within the EP should be accurate, objective, relevant and should include:

implemented programs, indicating the expected learning outcomes;

information about the possibility of assigning qualifications at the end of the EP;

information about teaching, learning, assessment procedures;

information about the scores and training opportunities provided by students;

information about graduate employment opportunities.

EP management should use a variety of ways to disseminate information, including the media, information networks to inform the general public and stakeholders.

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

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

The university should demonstrate the information on the web resource that characterizes the university as a whole and in the context of educational programs.

An important factor is the availability of adequate and objective information about the teaching staff of the OP, in the context of personalities.

An important factor is informing the public about cooperation and interaction with partners in the framework of EP, including with scientific / consulting organizations, business partners, social partners and educational organizations.

The university should post information and links to external resources on the results of external assessment procedures.

An important factor is the participation of the university and the EP implemented in a variety of external assessment procedures.

The evidence part

The university provides relatively diverse ways to disseminate information: the official website of the university (http://www.korkyt.kz .), Social networks, periodicals, directories, media, information banners and brochures that post relevant information to inform the public. and interested parties.

Information materials about the university are placed in the media - in the republican and regional print media, on regional and city television. To inform the public, modern information systems, information and communication technologies and software are used.

The formation of a positive image of KSU is influenced by the active dissemination of information about its activities. The university has created a single information-analytical and socially-oriented environment, there is an information department. Information materials about the university are placed in the media - in the republican and regional print media, on regional and city television. To inform the public, modern information systems, information and communication technologies and software are used.

Information is posted on the university website, in the news section and in thematic sections; information, analytical, image and other materials are prepared and placed in the media.

Structural units of the university, performing organizational, managerial and informational and analytical functions, are responsible for collecting information, organizing events for access to data of scientific, educational and educational information; monitoring and analysis of the state of informatization of education and management activities, etc .: office-registrar, educational unit, information technology department.

The university has a vocational guidance department, where there are materials about the departments. The department organizes various events throughout the year: meetings with graduates of schools and colleges in the city and the region, advertising the university, preparing booklets, placing commercials on television, radio and other media.

There is a system of informing all employees, faculty, students and undergraduates through both paper and electronic distribution of internal and external documents to departments, publishing the necessary information on the university website, posting information and announcements on information boards in the state and Russian languages, informing managers and interested persons at meetings and meetings, through direct mailing by e-mail, etc.

Open days, university-based job fairs, exhibitions of achievements and demonstrations of new technologies and equipment introduced, career guidance events, booklets, promotional and promotional materials are held.

The site provides an opportunity to go to the rector's blog, write a complaint, get advice on issues of interest. Feedback forms at the university: questioning, the system of consideration of proposals. On the personal pages of the rector and vice-rectors in the directions posted information about the hours of admission on personal matters. Suggestions and recommendations may be made at meetings of collegial bodies that include students and teachers.

The university management pays enough attention to the presence of a communication mechanism with students, staff and other persons interested in the activities of the university.

The survey of faculty members conducted during the visit of the EEC of the IAAR showed that the faculty members are generally satisfied with the work of the Internet. Lack of access to the Internet: “never” - 2.9%, “sometimes” - 39.2%, “often” - 57.8%.

Analytical part

Analysis of the content of the university website has allowed to establish that there is not sufficient transparency of the complaints handling information for consumers on the university website; information on interaction with scientific / consulting organizations and educational organizations implementing similar educational programs is not provided; The transparency of complaints handling information is not reflected.

The information published by the university within the EP should include information on graduates' employment opportunities.

Also on the website of the university is not published audited financial statements in the context of the accredited OP.

The following notes are available:

- the website of the university has not demonstrated the availability to the public of basic information on EP;
- on the website of the university there is no information about the possibility of awarding qualifications at the end of the EP, about teaching, training, assessment procedures, employment opportunities for graduates, etc .;
- no information on the availability of disciplines personnel on the site;
- on the website of the university there is no information on cooperation with industrial enterprises of the region interested in the employment of graduates;
- the characteristic of the graduate, his competence is not presented.
- it is not known how the satisfaction of interested persons in the quality of received information and its completeness is investigated?

At the same time, it should be noted that although http://korkyt.kz/index.php/ru/ has a fairly acceptable design and offers pages in Kazakh and English, http://e-univer.korkyt.kz/ (internal site) has an outdated design. His design should be updated and

he should offer a search engine. Both sites should indicate whether the search results are linked to a website or a PDF document.

It would be a good task for students to make a comparative assessment of the website with the websites of universities in other countries, as well as in Kazakhstan.

It should be noted the strength of the university - KSU is actively involved in a variety of procedures for external evaluation of EP.

Strengths / Best Practices

- participation of the university and the implemented EP in a variety of external assessment procedures.

EEC recommendations

According to EP 5B070300, 6M070300 - "Information systems", 5B070400, 6M070400 - "Computing equipment and software"«:

- to supplement the information on the university's website about the specifics of EP 5B070300, 6M070300 - "Information systems", 5B070400, 6M070400 - "Computing equipment and software": about the features and areas of specialty, about employment opportunities, etc.
- ensure that the public is informed about the progress of the EP on the website of the university in the state, Russian and English languages;
- post on the university website a graduate model in the context of the EP and audited financial statements.

Conclusions EEC on the criteria:

According to the Public Information standard, 13 criteria are disclosed, of which educational programs 5B070300, 6M070300 are "Information Systems", 5B070400, 6M070400 - "Computing equipment and software" have 1 strong position, 10 satisfactory positions and 2 suggest improvement.

6.10 Standard»Standards in the context of individual specialties"

The organization of educational activities under the accredited EP is carried out through the planning of the educational process and the content of education, the choice of ways to conduct them. The balance of theoretical and practice-oriented disciplines in the implementation of EP is ensured by the fact that the study of theoretical disciplines necessarily implies their practical orientation to the educational process in accordance with general didactic principles, and the study of practice-oriented disciplines, including methodological ones, is based on fundamental theories. Much attention is paid to technology design activities.

"TECHNICAL SCIENCES, AND TECHNOLOGIES"

The evidence part

All activities of the educational program as a whole correspond to the strategy, mission, vision and values of Kyzylorda State University named after Korkyt Ata. The content and form of the EP, decisions taken by the leadership of the EP are consistent with the strategic documents. This is necessary to ensure that educational organization resources are not spent on goals that do not coincide with strategic goals and do not contradict them. Otherwise, the development and functioning of the organization becomes less efficient and less efficient.

Students taken on the 1st course in the specialties 5B070300-Information systems, 5B070400-Computing equipment and software after conducting tests in the English

language, are divided into multilingual and Kazakh academic groups. Much attention is paid to the study of English. Since the 2012 school year, the Computer Science department has been accepting students for multilingual groups and classes are conducted in three languages (Table 19).

Contingent of multilingual and kazakh groups

Specialty	2013-2014		2014-2015		2015-2016		2016-2017		2017-2018	
	pb	to / about	pb	to / about	pb	to / about	pb	to / about	pb	to / about
5B070300-Information Systems	11	18	15	32	18	-	10	15	9	14
5B070400-Computing and software	13	16	14	15	14	-	-	22	-	10

In practical and laboratory classes, each discipline focuses on production processes.

Each taught discipline gives the opportunity to acquire skills to create software implementation that is used in the workplace.

Educational programs are systematically updated taking into account the interests of employers and students. Academic disciplines in specialty with a sufficient degree are equipped with educational and methodical materials with a modern level of restraint and performance. Educational and methodical maker

As part of the accredited EP 5B070300, 6M070300 -»Information Systems", 5B070400, 6M070400 -»Computing equipment and software»demonstrated the knowledge and skills of project work among students.

For teaching technical disciplines at KSU, the case-study method is used - a tool that allows you to apply theoretical knowledge to solve practical problems. The method contributes to the development of students' independent thinking, the ability to listen and take into account an alternative point of view, to give their own arguments with conviction. Case - an example taken from real life, is not just a truthful description of events, but a single information complex that allows you to understand the situation.

The possibility of students in the process of learning to master chemical technologies at work, with the subsequent application of acquired skills during the passage of industrial internships, has been implemented.

Within the framework of the accredited EP 5B070300, 6M070300 - “Information Systems”, 5B070400, 6M070400 - “Computing equipment and software”, the university demonstrated to the students the knowledge, skills and abilities in the field of ICT through self-study, self-development and self-expression through creativity.

The results of training in educational programs are: the formation of students' competencies that are in demand in the labor market; personality-professional and social development of students, contributing to socialization, the formation of a common culture of the individual.

Educational programs are systematically updated taking into account the interests of employers and students. Training disciplines in specialty in the degree of excellence are equipped with educational and methodical materials with a modern level of restraint and performance. Educational and methodical maker

For example, when developing catalogs of elective disciplines 5B070400, employers' requirements were taken into account and were included in the QED of the discipline»Geographic Information Systems»(2015-2016),»Information Systems in Construction»(2016-2017),»Technology Java programming, Mobile application

development, 3D printing (2017-2018) for the specialty 5B070300 - “Information systems”, for the specialty 5B070400- “Computing technology and software” - “Robotics”, “Smart - technologies»,»CISCO Network Technologies»,»Computer Technology Development c»(2017-2018u.g.).

For teaching certain disciplines and with the aim of improving the quality of teaching, practitioners with work experience are invited: Ph.D., senior teacher Abdikadyrov Bauyrzhan Amirbekovich - head of the modeling group of Torgai Petroleum JSC, Ph.D., senior teacher Almenova Akmaral Bayzhanovna –Azim of the Kyzylorda Oblast Akim, Doctor of PhD, Senior Lecturer Ibadullah Sabit Ibadullauly - Director of the KSU “Center for Information Technologies” of the Kyzylorda Regional Department of Digital Technologies, Master of Computer Science and Compute Nursultan Alibekovich Bolatbayev, teacher of telecommunications, teacher, master of engineering and technology, teacher Ibraeva Zhanar Kairatovna, head of IT development and development department, KSU Center for Information Technology, Kyzylorda Regional Department of Digital Technologies. The departments of»Computer Science»are based and include a clear relationship with the content of the fundamental natural sciences. For example, in the specialties 5B070300-Information systems - “Theory of electrical circuits”, “Schematic engineering”, “Automated control systems”, “Computer modeling”, “Mathematical analysis”, “Probability theory and statistics”, “Information systems in construction”, “ Online cartography»,»Geoinformation systems»,

5B070400-Computer equipment and software - “Automated control systems”, “The theory of electrical circuits”, “Digital circuit design”, “Electronics”, “Mathematical analysis”, “Discrete mathematics”, “Mathematical methods”, “Computer modeling”, “ Probability theory and statistics»,»Computer chemistry», specialty 6M070300-Information systems - »Integer algebra», 6M070400-Computing technology and software-»Computer mathematics»,»Qualitative and numerical research syskikh systems». According to the curriculum of EP 5B070300-Information systems, 5B070400-Computing equipment and software, all kinds of practices are conducted during the entire period of training in all courses. In order tEProvide practical experience in the specialties of undergraduate education and practical training are provided.

Analytical part

For example, when developing catalogs of elective disciplines 5B070400 –– were included in the QED disciplines of the discipline “Geoinformation Systems»(2015-2016), “Information Systems in Construction” (2016-2017), “Java Programming Technology”,»Mobile application development, 3D printing (2017-2018) for the specialty 5B070300 - “Information systems”, for the specialty 5B070400- “Computing equipment and software” - “Robotics”, “Smart technologies”, “ CISCO network technologies»,»Technology of development of computer games»(2017-2018th.) And this led to the fact that many These disciplines do not correspond to these specialties at all.

To improve the EP to the educational process should be attracted highly qualified specialists from the production, with extensive practical experience, working on large projects or industries. The results of training educational programs are: the formation of students' competencies that are in demand on the labor market, the formation of readiness for professional activities, personal, professional and social development of students, contributing to socialization, the formation of a general culture of the individual. Obviously there were few such specialists.

In the field of 5B070300-Information systems, 5B070400-Computing equipment and software, 6 credits of professional (for all types) practices are planned, including: 1-year students' educational practice - 2 credits (1 week); practical training for students in the 2nd year - 2 credits (5 weeks); practical training for students in the 3rd year - 2 credits (5

weeks); Practical training for 4-year students - 2 credits (5 weeks). But this is clearly not enough.

Students have the opportunity to study in small groups. Within the framework of the EP there are a number of disciplines that are conducted by practitioners with extensive experience who impart the skills of creative activity.

The university has created conditions for holding exhibitions.

EEC IAAR on the basis of attendance of classes, interviewing and questioning of faculty and students, familiarization with the educational infrastructure of the university and the documents submitted, notes the following:

- in a region that has great opportunities in the labor market in the presence of an actively developing industry, graduates of this study program have an insufficient level of employment.

On the basis of the graduating department there is a professional circle that promotes the formation and development of educational, scientific and practical activities of students, aimed at expanding the scientific potential, in-depth study of the chosen discipline and the formation of professional skills of students in their free time.

In general, according to the Standard, the commission can conclude about the insufficiently formed system of planning educational activities in its various areas and insufficiently effective use of the existing educational, material, technical, program-information and other resources when implementing these EPs.

Strengths / Best Practices

- within the framework of this Standard no strengths have been identified.

EEC recommendations

According to EP 5B070300, 6M070300 - "Information systems", 5B070400, 6M070400 - "Computing equipment and software":

- develop a regulation on the collective assessment of the results of coursework, team design;
- to introduce disciplines in the study program aimed at obtaining practical skills for relevant regional enterprises;
- to involve in the education program experienced staff members of enterprises in this region;
- to ensure the training of students in EP, using modern licensed software products;
- Kazaktelecom can offer students a wide range of technical tasks. But the company indicated that students are often not well prepared for their tasks. This should be taken into account, it should be clarified with the company, what knowledge in the field of telecommunications should be obtained before starting work in the company;
- it is necessary to thoroughly review the EP in the specialties 5B070300, 6M070300 - "Information Systems", 5B070400, 6M070400 - "Computer Engineering and Software" and exclude disciplines that are far from these specialties, align everything with the requirements of the NRC, PS and employers associations in ICT.

Conclusions EEC on the criteria:

According to the standard "Standards in the context of individual specialties", 15 criteria are disclosed, of which the accredited educational programs are 5B070300, 6M070300 - "Information Systems", 5B070400, 6M070400 - "Computing Machinery and Software" have 2 satisfactory positions and 3 suggest improvement.

(VII) REVIEW OF STRONG PARTIES / BEST PRACTICES FOR EACH STANDARD

According to the standard»Management of the educational program":
- The EP's management has been trained in the education management program.

According to the Information Management and Reporting Standard:
Information collected and analyzed by the university takes into account:
- the dynamics of the contingent of students in the context of forms and types;
- level of progress, student achievement and expulsion;

According to the Standard»Development and approval of the educational program":
- within the framework of this Standard no strengths have been identified.

According to the standard»Continuous monitoring and periodic evaluation of educational programs":
- within the framework of this Standard no strengths have been identified.

According to the standard»Student-centered learning, teaching and assessment of progress":
- within the framework of this Standard no strengths have been identified.

According to the Standard»Students":
- within the framework of this Standard no strengths have been identified.

According to the Standard»Teaching staff":
- within the framework of this Standard no strengths have been identified.

According to the Standard»Educational resources and student support systems":
- within the framework of this Standard no strengths have been identified.

According to the Public Information Standard:
- participation of the university and the implemented EP in a variety of external assessment procedures.

Standards in the context of individual specialties:
- within the framework of this Standard no strengths have been identified.

(VIII) REVIEW OF RECOMMENDATION TO IMPROVE QUALITY BY EACH STANDARD

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

According to EP 5B070300, 6M070300 - “Information systems”, 5B070400, 6M070400 - “Computing equipment and software”:

According to the standard»Management of the educational program":

- the department needs to more clearly reflect the link between research conducted at the department, with the teaching and implementation of graduation projects and master's theses;

it is necessary to ensure participation in relevant collegial governing bodies of the EP, not just employers, but employers who are members of associations in the field of ICT;

it is necessary to have innovation management in the framework of the EP, including the analysis and implementation of innovations in the EP;

to determine the uniqueness and advantages of the accredited EP in comparison with other EP implemented in the republic;

the department must constantly demonstrate changes and the implementation of the recommendations of the latest external checks in the preparation of documentation;

to envisage the possibility of a wider introduction in these specialties of the process of teaching academic disciplines in the English language in order to ensure the compliance of educational programs with the leading trends of the national educational policy (multilingual education);

define the role and functions of educational program managers;

systematize the risk assessment of the development of educational programs and develop a mechanism for their reduction, including such factors as the development and improvement of EP, risk management, monitoring, making decisions based on facts;

to identify and analyze the resources (human, material, financial, organizational, etc.) necessary for the implementation of the EP. Use the results of resource analysis when updating the EP development plan;

the department needs to begin work on the introduction of two-diploma education;

The University’s website also raises its criticism (this is confirmed by the questionnaire survey), it needs to be adjusted, increasing its importance for both students and faculty.

According to the Information Management and Reporting Standard:

- to ensure the functioning of the system for collecting, analyzing and managing information through the use of modern ICT and software;

- to supplement the website of the department with necessary information about the educational program and ensure their accessibility for students;

- to ensure that the institution of higher education documents about consent to the processing of personal data of students, faculty and staff of the university;

- The university should demonstrate the management of innovations in the framework of the EP, including the analysis and implementation of innovative proposals;

According to the Standard»Development and approval of the educational program":

- it is necessary to ensure the compliance of the developed EP with the established goals, presented in the professional standards of the respective specialties;

- to conduct an audit of the name and content of disciplines in the specialties of specialties 5B070300, 6M070300 -»Information systems", 5B070400, 6M070400 - »Computing equipment and software»in order to bring them in line with generally accepted standards and formed competences in accordance with professional standards;

- strictly take into account the relationship between the activities of the base of practices and the individual educational trajectory of the student when concluding contracts for the implementation of professional practices;

It is recommended tEProvide the possibility of extending the period of practical training to at least eight weeks;

it is necessary to foresee before production practice the organization of a safety course with electrical devices in accordance with the order of the Minister of Energy of the Republic of Kazakhstan dated March 31, 2015 No. 253 “Safety regulations for operation of electrical installations”, with issuing certificates up to 1000 Volts;

- fundamentally review educational programs in the specialties 5B070300, 6M070300 -»Information systems", 5B070400, 6M070400-»Computing equipment and software", focus on the transfer of deeper theoretical knowledge to students, and alsEPay considerable attention tEPractice using modern technology ;

consider the possibility of passing internships of teaching staff and managers in other educational institutions that implement such EPs;

to introduce in the Republican Unitary Enterprise of the EP discipline of theoretical, research and scientific practical orientation. Pay more attention to the content of disciplines that reflect the innovations and requirements of employers;

create conditions for preparing students for professional certification;

- provide for the possibility of replenishing the library fund of the university in accordance with the needs of disciplines;

the department to determine the formation of the priority areas of research, in which you can conduct research of teaching staff and undergraduates with the publication in scientific journals of Kazakhstan and abroad;

consider the implementation of joint educational programs with leading universities of the Republic of Kazakhstan and foreign educational organizations.

It is advisable to expand the list of graduation project managers who represent business structures that widely use information technologies in their production activities;

to envisage the possibility of the “Computer Science»department to introduce a term paper into the curriculum for students of 3-4 courses, the topics of which will correspond to the graduation project;

It is advisable to include in the QED department of the Computer Science Department an innovative discipline “Automation of Information Processing” with the aim of expanding the practical base for teaching students using modern software tools;

- to consider the issue of harmonization of educational programs with leading universities of the Republic of Kazakhstan implementing similar EPs.

- consider the implementation of joint educational programs with foreign educational organizations;

- develop a system for introducing research elements into the content of EP - to update the subject of master's projects / dissertations of EP, harmonized with modern requirements;

- EMCD to bring into compliance with the existing, but not with outdated NLA;

- to expand the work with potential employers whose business profile coincides with the future profession of graduates of EP.

According to the standard»Continuous monitoring and periodic evaluation of educational programs":

- strengthen the role of the Association of Employers in the development of EP (definition of the university component, work programs of disciplines, etc. by conducting discussions, questionnaires, surveys, focus groups and using other forms of their involvement);

- it is recommended tEPut intEPractice the collective implementation of graduation projects, master's theses with a clear distribution of the functional responsibilities of each member of the creative group;

- to ensure the transparency and availability of materials on the created EP, both for students and employers;

- revise the name and content of elective disciplines in accordance with the requirements of the PS;

- taking into account that the skills of future specialists will be vocational, creative potential and critical thinking skills, it is necessary to develop criteria for evaluating such skills;

- revise the system of organization of research practice and control over the performance of its undergraduates;

- tEPlan work on their own research in the field of teaching methods of special disciplines of the OP.

According to the standard»Student-centered learning, teaching and assessment of progress":

- given that online learning gives a feeling of freedom and control over the process of its development, which is one of the key motivators in obtaining the desired result, the department needs to include in the educational process the possibility of integrating MOOC with curricula;

develop a program to support graduates for their subsequent professional development;

develop and place on the website of the department criteria and methods for assessing learning outcomes in the framework of the EP;

It is recommended to introduce course design for special disciplines of specialties 5B070300-»Information systems", 5B070400-»Computing equipment and software"

introduce the mandatory implementation of the graduation project for the specialties 5B070300-»Information Systems", 5B070400-»Computer Engineering and Software"

to reconsider the need to teach the following elective disciplines for the specialty 5B070400- “Computer Engineering and Software”: “Systems of automatic control of technological processes”, in the direction “Development of software” - “Repair and installation of cable networks”;

preferably for the introduction of specialties 5B070300-»Information Systems", 5B070400-»Computer Engineering and Software»exclusive courses such as: IT project management, Innovative project management, Company management, Human-computer interaction, Architecture of parallel computing systems, Actuarial mathematics, Data Science, Non-relational databases;

It is necessary to develop a Regulation on the organization of the educational process at KSU with the use of distance learning technologies for bachelors, masters and doctoral students, as well as the preparation of guidelines for the use of modern distance learning technologies in the educational process;

It is recommended to develop programs for advanced training courses for faculty members: 1. “Distance learning technology” 2. “Mobile pedagogy: Modernization of pedagogical tools and resources for mobile learning”; development of the program for

advanced training of administrative and managerial personnel: “Organization of work in the system of distance learning”.

According to the Standard»Students":

- take measures to enhance the activities of the Alumni Association (plan, protocol, report, etc.);
- to ensure the creation of dialogue platforms for the exchange of views through modern technologies;
- to conduct seminars for students»How to live and learn in an era of rapidly developing digital technologies and understand their strategy of behavior in the digital world";
- develop a Regulation on support mechanisms for gifted students;
- to draw up a plan for the formation of a contingent of students, to strengthen work with schools, to carry out the popularization of the program;
- tEPay decent attention to students with disabilities, this will require a number of changes and adjustments in not only the educational process, but also the preparation of buildings, laboratories, classrooms. It is necessary to arrange comfortable ramps, install additional electronic boards in separate classrooms, create rest rooms, adjust toilets, etc.
- it is necessary to strengthen language training, especially in English. Practice practicing coursework, degree projects and dissertations in English.
- The graduating department should actively encourage students to self-education and development outside the main EP.

According to the Standard»Teaching staff":

- taking into account that the use of ICT in the educational process corrects the teaching methods, introduce into the practice of the activity of the department permanent seminars for teaching staff on teaching methods using ICT;
- faculty of the department to take an active part in the creation and implementation of online learning, mobile and blended learning at the department;
- given that the key problem in introducing new teaching methods is teaching staff, it is necessary to develop motivational criteria for attracting them to this activity;
- take measures to attract faculty with an academic degree and academic title;
- to expand the use of information and communication technologies in the educational process;
- to continue work on the systematic training of faculty;
- revise the system for assessing the quality of teaching staff and material incentives for achieving high results, for example, for publishing scientific articles in journals with a high impact factor, in order to ensure its transparency;
- as part of the implementation of the state multilingual program for the accredited EPs, develop a work plan aimed at increasing the level of proficiency of the faculty in foreign languages and providing for the development, publication and acquisition of specialized literature;
- finalize the procedure for assessing the competencies of teaching staff qualifications in accordance with the requirements of the level of training;
- to continue the work on the wide involvement of highly skilled production specialists in educational activities, for giving lectures on specialized subjects;
- to summarize the experience of conducting webinars with the aim of applying them to undergraduate and doctoral students, attracting highly qualified production personnel to give lectures;
- to start the development of educational MEP, control materials (tests, practical tasks) for ICT specialty courses;

- it is recommended to develop a Concept for training undergraduates, doctoral students of KSU in the SMART learning environment.

According to the Standard»Educational resources and student support systems":

- Considering that online education, blended and mobile learning are key to the success of a university, an effective strategy is needed to integrate these issues in the educational process;
- update the content of UML on the educational portal of the university by placing on it educational materials and tasks, control and evaluation materials, test tasks and other forms of control;
- to Provide access to Internet resources via Wi-Fi throughout the university, to continue work on improving electronic document management;
- consider the possibility of opening a certified laboratory, specialized robotics rooms, the acquisition of certified software, educational laboratory equipment for all accredited EPs;
- continue work on installation of ramps for people with disabilities in the buildings of the university, guide markings and colorographic signs and signs for visually impaired students and employees;
- establish safety requirements for the operation of equipment in accordance with the regulations, standards and requirements of TR CU 010/2011;
- to Provide broadband Internet all academic buildings of the university.
- as a result, all places of practice should be checked by the department, whether real working conditions with a workplace in companies and no fake workplaces will be offered. This should include research for practice sites in other cities and regions.
- The time for practice is recommended to increase to at least 8 weeks, the whole semester is preferable, this means a switch tEPractice-oriented training;
- it is desirable that students can receive payment from companies, this will help to improve the quality of the practice both from the point of view of the student and from the point of view of the company. If they are paid, the students will work much better and this gives much more motivation for the students.

According to the Public Information Standard:

- to supplement the information on the university's website about the specifics of EP 5B070300, 6M070300 - “Information systems”, 5B070400, 6M070400 - “Computing equipment and software”: about the features and areas of specialty, about employment opportunities, etc.
- ensure that the public is informed about the progress of the EP on the website of the university in the state, Russian and English languages;
- post on the university website a graduate model in the context of the EP and audited financial statements.

According to the Standard»Standards in the context of individual specialties":

- develop a regulation on the collective assessment of the results of coursework, team design;
- to introduce disciplines in the study program aimed at obtaining practical skills for relevant regional enterprises;
- to involve in the education program experienced staff members of enterprises in this region;
- to ensure the training of students in EP, using modern licensed software products;
- Kazaktelecom can offer students a wide range of technical tasks. But the company indicated that students are often not well prepared for their tasks. This should be taken

into account, it should be clarified with the company, what knowledge in the field of telecommunications should be obtained before starting work in the company;

- it is necessary to thoroughly review the EP in the specialties 5B070300, 6M070300 - “Information Systems”, 5B070400, 6M070400 - “Computing Equipment and Software” and exclude disciplines that are far from these specialties, align everything with the requirements of the NRC, PS and employers associations in the field ICT.

(IX) REVIEW OF RECOMMENDATION ON THE DEVELOPMENT OF EDUCATION ORGANIZATION

(List of recommendations of the EEC related to the development of NGOs. These recommendations do not apply to measures to improve the quality and compliance with the standards of the IAAR)

According to EP 5B070300, 6M070300 - “Information systems”, 5B070400, 6M070400 - “Computing equipment and software”:

- put intEPractice the holding of specialized conferences, thematic seminars and round tables devoted to the Programmer's Day;

- on the basis of the graduating department to create a “Circle of Robotics” as a form of educational, scientific and practical activities of students, aimed at expanding the scientific potential, in-depth study of the chosen discipline and the formation of professional skills of students in their free time.

Annex 1. Parameters of specialized profile EP 5B070300 -»Information systems", 6M070300-»Information systems", 5B070400 -»Computing equipment and software", 6M070400 -»Computing equipment and software"

No. p \ p	**No n \ n**	**Criteria for evaluation**	**Position of the organization of education**			
			Strong	**Satisfying**	**Suggests improvement**	**Unsatisfactory**
Standard»Management of the educational program"						
1		The university must have a published quality assurance policy.		+		
2		The quality assurance policy should reflect the link between research, teaching and learning.		+		
3		The university should demonstrate the development of a culture of quality assurance, including in the context of the OP.		+		
4		Commitment to quality assurance should relate to any activity performed by contractors and partners (outsourcing), including in the implementation of joint / two-diploma education and academic mobility.		+		
5		The EP's management ensures the transparency of the development plan of the EP based on the analysis of its functioning, the real positioning of the university and the focus of its activities on meeting the needs of the state, employers, stakeholders and students.		+		
6		The EP's management demonstrates the functioning of the formation mechanisms and regular review of the EP development plan and monitoring its implementation, assessing the achievement of learning objectives, meeting the needs of students, employers and society, making decisions aimed at continuous improvement of the EP.			+	
7		EP management should involve representatives of groups of stakeholders, including employers, students and teaching staff in the development of EP development plans.		+		
8		The EP management must demonstrate the			+	

		individuality and uniqueness of the EP development plan, its consistency with the national development priorities and the development strategy of the educational organization.				
9		The university must demonstrate a clear definition of those responsible for the business processes within the EP, the unambiguous distribution of staff duties, and the delineation of the functions of collegial bodies.		+		
10		The EP's management must provide evidence of the transparency of the educational program management system.		+		
11		The EP management must demonstrate the successful functioning of the internal quality assurance system of the EP, including its design, management and monitoring, their improvement, making decisions based on facts.		+		
12		EP management should implement risk management.			+	
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 the management of the educational program.		+		
14		The university should demonstrate the management of innovations in the framework of the EP, including the analysis and implementation of innovative proposals.			+	
15		EP management must demonstrate evidence of openness and accessibility for students, teaching staff, employers and other interested parties.		+		
16		The management of EP must be trained in educational management programs.	+			
17		The EP management must strive to ensure that the progress made since the last external quality assurance procedure was taken into account in preparing for the next procedure.		+		

Total standard			1	12	4	-
Information Management and Reporting Standard						
18		The university should ensure the functioning of the system for collecting, analyzing and managing information through the use of modern information and communication technologies and software.			+	
19		The EP management must demonstrate the systematic use of the processed, adequate information to improve the internal quality assurance system.		+		
20		Within the EP, there should be a regular reporting system reflecting all levels of the structure, including an assessment of the effectiveness and efficiency of the activities of departments and departments, and research.		+		
21		The university should establish the frequency, forms and methods of evaluating the management of EP, the activities of collegial bodies and structural divisions, senior management, the implementation of research projects.		+		
22		The university must demonstrate how to determine the order and ensure the protection of information, including determining those responsible for the accuracy and timeliness of information analysis and data provision.		+		
23		An important factor is the involvement of students, employees and teaching staff in the process of collecting and analyzing information, as well as making decisions based on them.		+		
24		EP management must demonstrate the presence of a communication mechanism with students, employees and other stakeholders, including the availability of conflict resolution mechanisms.		+		
25		The university should provide a measure of the degree of satisfaction of the needs of faculty, staff and students in the framework of the EP and demonstrate evidence to eliminate the detected deficiencies.		+		
26		The university should evaluate the effectiveness and efficiency of activities, including in the context of the OP.			+	
		Information collected and analyzed by the university should take into account:				
27		key performance indicators;		+		
28		the dynamics of the contingent of students in the context of forms and types;	+			

29		level of performance, student achievement and expulsion;	+			
thirty		students' satisfaction with the implementation of the EP and the quality of education at the university;		+		
31		availability of educational resources and support systems for students;			+	
32		Employment and career growth of graduates.		+		
33		Trainees, employees and teaching staff must document their consent to the processing of personal data.			+	
34		EP management should contribute to the provision of all necessary information in relevant fields of science.		+		
Total standard			2	11	4	-
Standard»Development and approval of educational programs"						
35		The university should determine and document the procedures for the development of EP and their approval at the institutional level.		+		
36		EP management must ensure that the developed EPs comply with the established goals, including the expected learning outcomes.			+	
37		The management of the EP should ensure the availability of the developed models of the graduate of the EP, describing the results of training and personal qualities.		+		
38		The management of the EP must demonstrate an external examination of the OP.		+		
39		Qualifications obtained at the end of the EP should be clearly defined, explained and correspond to a certain level of the NSC.			+	
40		The management of EP should determine the influence of disciplines and professional practices on the formation of learning outcomes.			+	
41		An important factor is the possibility of preparing students for professional certification.			+	
42		EP management must provide evidence of the participation of students, faculty and other stakeholders in the development of EP, ensuring their quality.			+	
43		The complexity of the EP should be clearly defined in Kazakhstan loans and ECTS.		+		
44		The management of EP must provide the content of academic disciplines and learning outcomes to the level of education (bachelor, master, doctoral).		+		
45		The structure of the EP should provide for various types of activities corresponding to the learning			+	

		outcomes.				
46		An important factor is the presence of joint EPs with foreign educational organizations.			+	
Total standard			-	5	7	-
Standard»Continuous monitoring and periodic evaluation of educational programs"						
47		The university should monitor and periodically evaluate the EP in order to achieve 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:				
48		the content of the programs in the light of the latest achievements of science in a particular discipline to ensure the relevance of the discipline being taught;			+	
49		changes in the needs of society and the professional environment;			+	
50		workload, performance and graduation of students;		+		
51		the effectiveness of student assessment procedures;			+	
52		expectations, needs and satisfaction of students with EP training;			+	
53		educational environment and support services and their compliance with the objectives of the EP.			+	
54		The university and the administration of the EP must provide evidence of the participation of students, employers and other stakeholders in the revision of the EP.		+		
55		All interested parties should be informed of any actions planned or taken in relation to the EP. All changes made to the EP should be published.			+	
56		EP management should ensure a review of the content and structure of the EP, taking into account changes in the labor market, employers' requirements and the social demands of society.			+	
Total standard			-	2	8	-
Standard»Student-centered learning, teaching and assessment of progress"						
57		EP management must ensure respect and attention to different groups of students and their needs, providing them with flexible learning paths.			+	
58		EP management must ensure the use of various forms and methods of teaching and learning.			+	

59		An important factor is the availability of own research in the field of teaching methods of academic disciplines OP.			+	
60		EP management must demonstrate the presence of a feedback system on the use of various teaching methods and evaluation of learning outcomes.		+		
61		The management of the EP should demonstrate support for the autonomy of students with simultaneous guidance and assistance from the teacher.			+	
62		The EP's management must demonstrate the availability of a procedure for responding to students' complaints.		+		
63		The university should ensure consistency, transparency and objectivity of the mechanism for assessing the results of training for each EP, including the appeal.		+		
64		The university must ensure that the procedures for evaluating the results of the training of students in EP correspond to the planned learning outcomes and the objectives of the program. Criteria and assessment methods in the framework of the EP should be published in advance.		+		
65		In a higher education institution, mechanisms should be defined to ensure that each graduate from the EP study results and ensure the completeness of their formation.		+		
66		Assessors should possess modern methods of assessing learning outcomes and regularly improve their skills in this area.		+		
Total standard			-	6	4	-
Standard»Students"						
67		The university should demonstrate the policy of forming a contingent of students from admission to graduation and ensure the transparency of its procedures. The procedures governing the life cycle of students (from admission to completion) must be defined,approved, published.		+		
68		The EP's management should demonstrate the implementation of special adaptation and support programs for new-comers and foreign students.		+		
69		The university must demonstrate the compliance of its actions with the Lisbon Recognition Convention.		+		
70		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 Information Recognition Centers ENIC / NARIC in order to ensure comparable recognition of qualifications.				
71		EP management must demonstrate the presence and application of a mechanism to recognize the results of academic mobility of students, as well as the results of additional, formal and non-formal education.			+	
72		The university should provide an opportunity for external and internal mobility of students of EP, as well as assist them in obtaining external grants for training.			+	
73		The management of EP should make the maximum amount of effort tEProvide students with places of practice, to facilitate the employment of graduates, to maintain communication with them.			+	
74		The university must provide graduates of EP with documents confirming their qualifications, including the achieved learning outcomes, as well as the context, content and status of the education received and evidence of its completion.		+		
75		An important factor is the monitoring of employment and professional activities of graduates of EP.		+		
76		EP management should actively encourage students to self-education and development outside the main program (extracurricular activities).		+		
77		An important factor is the existence of a valid alumni association / association.			+	
78		An important factor is the availability of a support mechanism for gifted students.			+	
Total standard			-	7	five	-
Standard»Faculty"						
79		The university should have an objective and transparent personnel policy, including recruitment, professional growth and staff development, ensuring the professional competence of the entire state.		+		
80		The university should demonstrate the compliance of the staff potential of the faculty with the development strategy of the university and the specifics of the EP.		+		
81		The management of the EP must demonstrate awareness of the responsibility for their employees and provide them with favorable working conditions.		+		
82		The management of EP should demonstrate a change in the role of the teacher in connection			+	

		with the transition to student-centered learning.				
83		The university should determine the contribution of the teaching staff of the EP to the implementation of the university development strategy, and other strategic documents.		+		
84		The university should provide opportunities for career growth and professional development of teaching staff of the OP.		+		
85		The management of EP should involve practitioners from relevant fields in the teaching.		+		
86		The management of EP should provide targeted actions for the development of young teachers.		+		
87		The university should demonstrate the motivation of professional and personal development of teachers of EP, including the promotion of both the integration of scientific activities and education, and the use of innovative teaching methods.		+		
88		An important factor is the active use of information and communication technologies in the educational process (for example, on-line training, e-portfolio, MEP, etc.).			+	
89		An important factor is the development of academic mobility in the framework of the EP, attracting the best foreign and domestic teachers.			+	
90		An important factor is the involvement of teaching staff in the community (the role of teaching staff in the education system, in the development of science, the region, creating a cultural environment, participation in exhibitions, creative competitions, charity programs, etc.).		+		
Total standard			-	9	3	-
Standard»Educational resources and student support systems"						
91	1	EP management must demonstrate the adequacy of material and technical resources and infrastructure.		+		
92	2	EP management must demonstrate the availability of support procedures for various groups of students, including information and counseling.		+		
		The EP management must demonstrate the compliance of information resources with the specifics of the EP, including compliance with:				
93	3	technological support for students and teaching staff in accordance with educational programs (for example, online training, modeling, databases, data analysis programs);			+	

94	4	library resources, including the fund of educational, methodical and scientific literature on general educational, basic and major disciplines on paper and electronic media, periodicals, access to scientific databases;		+		
95	5	examination of the results of research, final works, dissertations on plagiarism;		+		
96	6	access to educational Internet resources;		+		
97	7	WI-FI functioning on the territory of the organization of education.		+		
98	8	The university should strive to ensure that the training equipment and software used for the development of EP, were similar to those used in their respective industries.		+		
99	9.	The university must ensure compliance with safety requirements in the learning process.		+		
100	10	The university should strive to take into account the needs of various groups of students in the context of EP (adults, workers, foreign students, and students with disabilities).			+	
Total standard			-	8	2	-
Standard»Public Information"						
		The information published by the university within the EP should be accurate, objective, relevant and should include:				
101	1	implemented programs, with expected learning outcomes;		+		
102	2	information about the possibility of assigning qualifications at the end of the EP;		+		
103	3	information about teaching, learning, assessment procedures;		+		
104	4	information about the scores and training opportunities provided by students;		+		
105	5	information on graduate employment opportunities.		+		
106	6	EP management should use a variety of ways to disseminate information (including the media, web resources, other information networks) to inform the general public and stakeholders.		+		
107	7	Public awareness should include support and clarification of national development programs of the country and the system of higher and postgraduate education.		+		
108	8	The university should publish audited financial statements on its own web resource.			+	
109	9.	The university should demonstrate the information on the web resource describing the university as a whole and in the context of the EP.		+		

11 0	10	An important factor is the availability of adequate and objective information about the teaching staff of the OP, in the context ofpersonalities.		+		
111	11.	An important factor is informing the public about cooperation and interaction with partners in the framework of EP, including with scientific / consulting organizations, business partners, social partners and educational organizations.			+	
112	12.	The university should post information and links to external resources on the results of external assessment procedures.		+		
113	13.	An important factor is the participation of the university and the EP implemented in a variety of external assessment procedures.	+			
Total standard			1	10	2	-
Standards in the context of individual specialties						
TECHNICAL SCIENCES AND TECHNOLOGIES						
		Educational programs in the direction of»Technical Sciences and Technology»must meet the following requirements:				
126	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 education program should include disciplines and activities aimed at gaining practical experience and skills in the specialty in general and the major subjects in particular .ch .: - excursions to enterprises in the field of specialization (plants, workshops, research institutes, laboratories, educational and experimental farms, etc.), - carrying out separate occupations or the whole disciplines at the enterprise of specialization, - holding seminars to solve practical problems that are relevant to enterprises in the field of specialization, etc.			+	
127	2	The faculty involved in the education program should include full-time teachers with long-term experience as a staff member in enterprises in the field of specialization of the education program.		+		
128	3	The content of all disciplines of the EP should be based in one way or another and include a clear relationship with the content of the fundamental natural sciences, such as mathematics, chemistry, physics.		+		
129	4	The management of the EP should provide measures to enhance practical training in the field of specialization.			+	
130	5	The management of EP should provide training			+	

		for students in the application of modern information technologies.				
Total standard			-	2	3	-
TOTAL			4	72	42	-