«АККРЕДИТТЕУ ЖӘНЕ РЕЙТИНГТІҢ ТӘУЕЛСІЗ АГЕНТТІГІ» КЕМ

НУ «НЕЗАВИСИМОЕ АГЕНТСТВО АККРЕДИТАЦИИ И РЕЙТИНГА»

INDEPENDENT AGENCY FOR ACCREDITATION AND RATING

REPORT

on the results of the work of the External Expert Commission on evaluation for compliance with the requirements of the standards of primary specialized accreditation of educational programs "6B06102 Business informatics", "7M06103 Information Business Analytics", "8D06103 Modeling and Optimization of Business Processes"

S. Seifullin Kazakh Agro Technical University
from October “06” to “08”, 2020

INDEPENDENT AGENCY OF ACCREDITATION AND RATING

External Expert Commission

Addressed
to the Accreditation Council
of the IAAR

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Nur-Sultan city **October "08", 2020**

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(I) LIST OF DESIGNATIONS AND ABBREVIATIONS

AIS	Automated information system
ASK	Alliance of Students of Kazakhstan
EEC	External Expert Commission
GIS	Geo-Information Systems
GOSO	State Compulsory Education Standards
SEDP	State Education Development Program
UHEMS	Unified Higher Education Management System
ICT	Information and communication technologies
IAT	Institution of Advanced Training
ИСО/ISO	International Organization for Standardization (Международная Организация по Стандартизации).
IT	Information technologies
IEP	Individual education plan
KazNEL	Kazakhstan National Electronic Library
CUED	Catalog of University and Elective Disciplines
CYA	Committee for Youth Affairs;
SCVE	Computer Systems and Vocational Education
EDC	Elective Disciplines catalog
MEP	Modular educational programs
MA RK	Ministry of Agriculture of the Republic of Kazakhstan
IAAR	Independent agency of accreditation and ratings
NP JSC	Non-profit joint-stock company
R & D	Research Work
RC	ResearchCenter
NCE	National Chamber of Entrepreneurs
NQS	National qualifications system
NC	Science Center
GED	General Education Disciplines
EP	Educational Program
SLE	Society of Legal Entities
ATS	Academic Teaching Staff
PS	Professional standard
RIEL	Republican Interuniversity Electronic Library
C	Curriculum
MM	Mass Media
QMS	Quality Management System
SS	Students' self-study
OH	Office Hours
ST RK	The Standard of the Republic of Kazakhstan
MC	Model Curriculum

(II) INTRODUCTION

In accordance with order № 71-20-GD dated 09/07/2020 of the Independent Agency for Accreditation and Rating, from October 6 to October 8, 2020, an external expert commission assessed the compliance of NPJSC “S. Seifullin KATU” with the standards of primary specialized accreditation of the IAAR (dated February 24, 2017 № 10-17-OD, fifth edition).

The report of the external expert commission (EEC) contains an assessment of the conformity of the activities of NPJSC "KATU S. Seifullin" within the framework of primary specialized accreditation to the criteria of the IAAR, recommendations of the EEC for further improvement of the parameters of the institutional profile.

EEC members:

The Chairman of the Commission - Bratsikhin Andrey Alexandrovich, Doctor of Technical Sciences, Head of the Department of Food Technologies and Engineering, Institute of Living Systems, North Caucasian Federal University;

Foreign expert - Sergei KonstantinovichFilipov, Dr. sc. ing., professor, Abo Akademi University, Finland;

Foreign expert - Levykh Alena Yurievna, Candidate of Biological Sciences, Associate Professor of the Ishim State Pedagogical Institute named after P.P. Ershov;

National Expert - OmarovRustemTukenovich, PhD, Head of the Department of Biology and Biotechnology, Gumilyov Eurasian National University;

National Expert - Nurgazezova Alma Nurgazezovna, Candidate of Technical Sciences, Associate Professor of the Department of Technology of Food and Processing Industries, Semipalatinsk State University named after Shakarim;

National Expert - AkhmetovBakhytzhanSrazhatdinovich Doctor of Technical Sciences, Professor, Abai Kazakh National Pedagogical University;

National Expert - SagnaevaSauleKairollaevna, Candidate of Physical and Mathematical Sciences, Professor of the Department of Information Systems, Gumilyov Eurasian National University;

National Expert - Mustafin Marat Askarovich Doctor of Technical Sciences, Professor of the Almaty University of Energy and Communications;

National Expert - AsangalievElibekAtrauovich, Candidate of Agricultural Sciences, Associate Professor of the Department of the School of Earth and Environmental Sciences, Serikbayev East Kazakhstan State Technical University;

National Expert - Gabdulov Madi Asetovich, Candidate of Agricultural Sciences, Associate Professor of the Department of Plant Growing and Agriculture West Kazakhstan Agrarian Technical University named after Zhangir Khan;

Employer - Leyla MaratovnaZhanspaeva, Human Capital Development Department of the Chamber of Entrepreneurs of Akmola Region;

Employer - Daniyar AmangeldinovichZhantleuov, Candidate of Agricultural Sciences, employee of the North Kazakhstan Research Institute of Livestock and Plant Production;

Student - Mukash Nazgul, 2nd year master student of the specialty "MCM" of the Kazakh-British University;

Student - AisuluTolegenova, 4th year student of the specialty "Biology", Gumilyov Eurasian National University;

Student - Askar Tengebaev, 1st year student of the Gumilyov Eurasian National University;

Observer from the Agency - NazyrovaGulfiyaRivkatovna, Ph.D., Project Manager of the Agency.

(III) PRESENTATION OF THE EDUCATIONAL ORGANIZATION

Non-profit joint-stock company “S. Seifullin Kazakh Agro-Technical University” (hereinafter KATU) is a subject of higher professional education of the Republic of Kazakhstan and operates on the basis of the Charter approved by the decision of the sole shareholder of the non-profit joint-stock company and the “National Agrarian Scientific and Educational Center” № 2 dated 05.02. 2018, certificate of state re-registration of a legal entity № 27738-1901-AK dated 10.07.2007.

Educational activities are carried out on the basis of a state license for the right to conduct educational activities AB № 0062189 dated 02.07.2008, without limitation of validity.

The University has a certificate of state accreditation as a subject of scientific and research and technical activities MK No. 006008 dated January 16, 2020.

In 2019, KATU passed international institutional accreditation for a period of 7 years (AA certificate № 0150 dated 04/05/2019), which is evidence of the quality of educational, methodological, research and socio-cultural activities.

KATU is one of the largest multidisciplinary higher educational institutions in Kazakhstan. The university was founded in 1957 as the Akmola Agricultural Institute (Resolution of the Council of Ministers of the USSR № 1176 of 3.10.1957).

Currently, the university is training highly qualified specialists for various sectors of the economy of Kazakhstan, carrying out scientific research and, on their basis, training highly qualified personnel .

The teaching staff of the university unites 795 full-time teachers (excluding the teaching staff of the military department), including 81 Doctors of sciences, 340 candidates of sciences, 63 PhD. Education is conducted at 8 faculties, 42 departments, 12673 students are trained; there are 18 areas of training for bachelor's degree, 16 areas of master's degree and 12 areas of doctoral PhD.

Higher professional education is obtained by full-time and part-time forms of study, including on a shortened educational program and on the basis of higher education. Depending on the form of study, the term of study is from 2 to 5 years.

On the basis of higher education, university graduates receive a second higher professional education at an institute for advanced training and distance learning: the training period is from 2 to 4 years, depending on the form of training.

KATU is represented in international rankings. In 2012, according to the rating of the international agency QS, the university entered the number 601+, among 8 Kazakhstani universities, annually in the ranking of universities in Eastern Europe and Central Asia QS University Rankings: EECA 2018 the university is in the top +200.

In 2018, in the National ranking of the demand for universities of the Republic of Kazakhstan, KATU entered the top 20 universities of Kazakhstan and took 4th place, in 2019 the 3rd place, and in 2020 the indicators improved to the 2nd place. In the rating of educational programs of NCE Atameken in 2019 among agricultural universities, the S. Seifullin Kazakh Agro Technical University took 1st place.

International cooperation of KATU is carried out on the basis of more than 154 cooperation agreements and memorandums of understanding with foreign universities, research centers in the USA, France, Canada, Germany, Italy, Switzerland, Finland, Austria, Czech Republic, Hungary, Poland, Romania, Latvia, Turkey, Serbia, China, Korea, Republic of Belarus, RF, Mongolia and other countries.

In the period from 2014 to 2019, KATU attracted 81 foreign scientists to teaching at the expense of budget funds under the program to attract foreign scientists to deliver lectures at universities in the Republic of Kazakhstan, as well as 25 foreign scientists within the framework

of the European Union Erasmus + program, the Fulbright program of the US Embassy, DAAD, at the expense of the university own funds and free of charge.

Within the framework of the program of attracting foreign specialists to the top management of universities of the Ministry of Education and Science of the Republic of Kazakhstan from April 2018 to November 2019, Dr.Guy Ribat was approved as Vice-Rector for Strategic Development and Transformation, who had the position of the Vice President at the National Institute for Agricultural Research (INRA) of France (orders by MES RK № 146 of 04/11/2018 and № 19 of 01/17/2019).

The university has a modern material and technical base, the latest scientific laboratories, agricultural land with an area of 1300 hectares for practical training of students, 9 technological platforms have been created.

In 2020, scientific research at KATU is being implemented according to 108 research projects and programs, under contracts with business entities for a total amount of 1.246.397.32 thousand tenge. Among them there are 4 international projects with the Xinjiang Institute of Ecology and Geography of the Academy of Sciences of the PRC, with the Shisen Company (PRC), with the Institute of Industrial Cultures (IBFC), the Chinese Academy of Agricultural Sciences.

The university has 9 research centers: Research Center for Fisheries, Research Center for Economic Problems of Agrarian Development, Research Center for Humanitarian Research and Educational Technologies, Center for Energy Saving and Extension of Knowledge, Design Bureau, Scientific and Educational Innovative Center for Agrobiological Research, Scientific and Innovative Center for Phytosanitary Monitoring, plant protection and quarantine, research platform for agricultural biotechnology (RPABT), scientific and educational center for GIS technology.

14 scientific articles with quartile Q1, Q2 and percentage ≥90 were published in 2019 in journals included in the Web of Science and Scopus databases

Two scientific journals have been published on the basis of KATU: Science Review since 2007 and the Bulletin of Science of S. Seifullin KATU since 2011. The latter is defined by Thomson Reuters as a scientific publication with a non-zero index.

In 2008, on the basis of the scientific and innovative center of modern biotechnology in connection with the growth of research funding, strengthening of scientific potential and material and technical base, the Scientific Research Institute of Biotechnology (Order № 94 of March 06, 2008) was established to conduct fundamental and applied biotechnological research.

In order to deepen integration into the global scientific and educational space, mastering advanced knowledge and technologies, KATU in January 2019 signed a memorandum of understanding with the Agreenium Consortium and AgroParisTech University, the world's leading research university and scientific organization of an agricultural profile.

Together with foreign partners, in particular the University of California at Davis (USA), a program was developed to transform KATU into a world-class research university in the field of agriculture.

On September 1, 2020, by the Decree of the Government of the Republic of Kazakhstan, the non-profit joint-stock company "S. Seifullin Kazakh Agrotechnical University" was assigned the status of a Research one. The University includes the Scientific and Production Center for Grain Farming named after A.I.Baraev, North Kazakhstan Agricultural Experiment Station, Kazakh Research Institute of Forestry and Agroforestry for scientific research and practical training of students.

(IV) DESCRIPTION OF THE PREVIOUS ACCREDITATION PROCEDURE

The accreditation of educational programs “6B06102 Business Informatics”, “7M06103 Information Business Analytics”, “8D06103 Modeling and Optimization of Business Processes” is held for the first time.

(V) DESCRIPTION OF THE VISIT OF THE EEC

The work of the EEC was carried out on the basis of the Program of an on-line visit of the expert commission on primary specialized accreditation of the S. Seifullin Kazakh Agro Technical University in the period from October 06 to October 08, 2020.

In order to coordinate the work of the EEC, on 05.10.2020, an opening meeting was held, during which powers were distributed among the members of the commission, the schedule of the visit was clarified, and agreement was reached on the choice of examination methods.

In accordance with the requirements of the standards, the program of the visit covered meetings with the Chairman of the Board, Deputy Chairmen of the Board, heads of structural divisions, deans, heads of departments of the university, teachers and students, as well as employees from various departments, interviews and questioning of teachers and students. In total, 125 people took part in the meetings (table 1).

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

Participants category	The number
the Chairman of the Board	1
Deputy Chairmen of the Board	5
Headsofstructuraldivisions,	15
Deansoffaculties	5
Headsofdepartments	8
Teachers	53
Students, undergraduates, doctoral students	38
Total	125

EEC members attended the following lessons:

- of the discipline Information and Communication Technologies (1 course, 6B06102 Business Informatics, Russian language students);
- of the discipline Information and Communication Technologies (1 course, 6B06102 Business Informatics, Kazakh language students);
- of the discipline Econometric Research (1 course, 7M06103 Information Business Analytics);
- of the discipline Academic writing (1 course, 8D06103 Modeling and optimization of business processes).

During the excursion, the EEC members got acquainted with the state of the material and technical base.

In accordance with the accreditation procedure, a questionnaire survey of teachers and students was carried out.

In order to confirm the information presented in the Self-Assessment Report, external experts requested and analyzed the working documentation of the university. Along with this, the experts studied the Internet positioning of the university through the official website of the university https://kazatu.kz/ru/

All conditions were created for the work of the EEC, access to all necessary information resources was organized. The team of S. Seifullin KATU ensured the presence of all persons indicated in the program of the visit, observing the established time interval.

As part of the planned program, recommendations for improving the activities of S. Seifullin KATU, developed by the EEC based on the results of the examination, were presented at a meeting with the authorities on 08.10.2020.

(VI) COMPLIANCE WITH THE STANDARDS OF SPECIALIZED ACCREDITATION

6.1. Standard "Educational Program"

Proof part

The University is responsible for the quality of educational services provided and implements one of the fundamental principles of TQM, reflected in the ISO of 9000: 2000 series, focus on meeting the requirements and expectations of consumers and all interested parties. Stakeholders include: government, society, employers, students and their parents.

Quality policy is a part of strategic management and is considered together with other documents: mission, strategy, academic policy, standards of internal quality assurance of the university.

KATU quality assurance policy is a direct consequence of the implementation of the Strategy-2025 (https://kazatu.kz/ru/ob-universitete/videnie-missiya-strategiya-ao-katu-im-s-seyfullina/), which states that the main vision of the university for the future is to become a "research university of the international level in the field of the agro-industrial complex and related industries."

Mission of KATU: "generation, implementation, dissemination and application of advanced knowledge to improve the quality of life, increase labor productivity and competitiveness of the agro-industrial complex and other sectors of the economy of Kazakhstan." On the basis of the mission, the goals of the university were developed, which are aimed at ensuring the continuity of its development. The strategic goals of the university are formulated and communicated to all structural units and each teacher.

One of the strategic goals of KATU which was announced is "employment in the specialty within three months after completion of training, confirmed by independent sources – at least 60% of graduates." KATU actively cooperates with potential employers, since they impose requirements on the results of EP training, the most significant requirements for the knowledge, skills and abilities of graduates. The Coordinating Council of KATU includes representatives of business: ALE "Kazakhstan Association of IT Companies", LLP "Center for Sustainable Development of the Capital", LLP "BenchMarkConsalting", LLP "SRC""Factor", JSC International Airport "Nursultan Nazarbayev", LLP "MITWORK", College of Energy and Communications.

Currently, KATU is fully implementing the "Development Program of S. Seifullin Kazakh Agro Technical University for 2016-2020", which substantiates the ways of integrating educational, research and innovation activities on the basis of the university during reorganization into a research university in order to increase the competitiveness of the agro-industrial complex at the regional, national and international levels

The University strives to create the best system of advanced training of specialists and scientific and pedagogical personnel in Kazakhstan that meets international standards by providing wide opportunities for choosing the level, content, form and duration of training based on unique curricula and academic mobility. The effectiveness of the research direction of KATU in the development of the agro-industrial complex is due to the ability to combine the training, conducting relevant scientific research and promoting scientific achievements in the industry. Quality Assurance and Improvement applies to all EP implemented at KATU.

The internal quality assurance system is based on the ENQA recommendations, the criteria for external evaluation of universities in the National Education Quality Assessment System. At the same time, the concept of quality of education covers teaching and research work, leadership and management of KATU, the ability to meet the needs of students and the provision of other services by the university to society.

The quality policy is a part of strategic management and is considered in accordance with the mission and vision from the standpoint of the quality management system of KATU in accordance with the requirements of ST RK ISO 9001: 2016.

The university has developed documentation for quality assurance management, first of all, this is technological (for example, educational programs) and regulatory (provisions on structural units and the implementation of various functions) documentation, academic policy (https://kazatu.edu.kz/ru/education / akademicheskaya-politika /), as well as quality plans and programs, internal audit plans, work plans, etc.

The classifier of QMS documents is posted on the university website (https://kazatu.kz/assets/i/deps/klassifikator-2020.pdf), the documents themselves are available to all users via the internal corporate network. The developed documentation (documents on the quality management policy, quality manuals for the university as a whole and for the areas of activity, university standards, methodological instructions for areas of activity, etc.) allows you to create a control system based on quality plans, improve the efficiency of the organizational structure, to distribute powers and responsibilities of all levels of management, to highlight key processes, and to effectively manage resources.

KATU has a quality assurance system. Self-Assessment of departments is carried out on a regular basis according to certain criteria; survey of students, graduates, consumers is carried out; determination of the level of mastering by students of academic disciplines; state certification of graduates is carried out.

In order to manage risks, improve the efficiency of the intra-university quality assurance system, KATU has developed a Regulation "On the procedure for determining and managing risks in JSC S. Seifullin Kazakh Agro Technical University" (PDMR QMS 11010.146-2016) Risk Management Policy.

KATU is responsible for the quality of education provided and its provision, systematically deals with planning and quality management. All participants in the educational process strive to achieve the planned goals. Management of educational programs 6B06102 – “Business Informatics”, 7M06103 –“Information Business Analytics”, 8D06103 –“Modeling and Optimization of Business Processes” implemented by S. Seifullin KATU, allows you to involve the entire staff of the ICT Department, including students, to ensure high results of educational and scientific activities.

The staff of the department, who are directly involved in the development of the EP, were trained on the new academic policy in the context of expanding academic and managerial independence: G.E. Murzabekova. head of the department, lecturers Koksegen N.E., Nurpeisova A.A., Smailova L.K.

KATU determines and consistently applies the procedures for monitoring, periodic evaluation and revision of the EP (PDPDEPMI QMS 02.2034-2018 Regulations on the procedure for developing a plan for the development of educational programs and monitoring its implementation, RAC QMS 02.2023-2017 Regulations on the activities of committees for work plans, programs and quality control of the SS of students, etc.). The purpose of these activities is to ensure their effective implementation and create a supportive learning environment.

All structures of the university are involved in the management of the EP: from the department that provides planning, development, monitoring, updating, verification of the EP to the structural units of the university - the dean’s office, the department for academic matters, quality services, etc., which provide approval, implementation, verification, monitoring, official support of EP, improvement of the organization of licensing processes, accreditation of educational programs, etc. Educational programs are managed by collegial bodies - the Coordinating Council, the Academic Council of the University and councils of faculties. Representatives of IT companies in Kazakhstan and the ALE Kazakhstan Association of IT Companies are among the members of the Coordination Council for the development and modernization of the content of the EP. In addition, the university has a Board of Trustees, which includes specialists supervising the EP.

The EP is signed by the head of the graduating department, the chairman of the methodological commission of the faculty, the dean of the faculty and approved by the Chairman of the Board.

The set of principles for managing innovation processes in the implementation of EP, the conscious adoption and adherence to which will ensure the purposefulness of innovation processes, is due to: availability, efficiency, quality; the concept of continuing education; modern educational paradigm of KATU.

The EP development plan is developed on the basis of the PDPDEPMI QMS 02.2034-2018. Regulations “On the procedure for developing a plan for the development of educational program and monitoring its implementation” and determines the strategy and tactics of improving the EP, the direction of development of the EP.

The EP development plan is developed on the basis of the university strategic development plan; the implementation period of the plan activities is at least 3 years. According to the Regulation of the QMS, the plan is developed with the participation of all interested parties: employers, students, teaching staff, implementing the data of the EP of the ICT Department.

Information about EP and EP Development Plans is communicated to interested parties by posting information on the university website on the page of the ICT Department (https://kazatu.edu.kz/assets/i/ked/plan-ict1-ru.pdf, https: // kazatu.edu.kz/assets/i/ked/plan-ict2-ru.pdf, https://kazatu.edu.kz/assets/i/ked/mop-8D06103-2020-ru.pdf).

Teaching staff who implement the EP of the ICT Department and students have access to information and educational resources of the KATU library (https://library.kazatu.kz/), to external information sources (https://library.kazatu.kz/prepodavatelyam/udalennyj-dostup -k-resursam), to electronic catalogs (http://ecatalog.kazatu.kz/jirbis2/izzdeu.php), to international databases WebOfScience, Scopus. Experts confirm that the educational environment at KATU for the implementation of EP in the conditions of distance interaction of all participants in the educational process is implemented on the AIS Platonus platform (https://platonus.kazatu.kz/) and Moodle. On the educational portal AIS Platonus, all the necessary educational documentation for the EP is presented: syllables (work programs) of disciplines.

In the process of EP management, information on various areas of activity is systematically analyzed (on the formation of the lists of students, on the available personnel, information, material and technical resources, on scientific and international activities).

KATU ensures constant and unimpeded advancement of the student in the process of mastering EP through clearly regulated procedures for the formation of educational trajectories, assessment of knowledge, accounting for academic achievements and transfer to the next course.

In the course of the EP implementation, the assessment of academic learning outcomes (progress in intermediate certification) is carried out, reports are drawn up on educational, methodological, scientific and educational activities based on the results of trimesters, to improve the qualifications of the teaching staff of the ICT department, and also the results of educational and professional practices of students are considered. The EP indicates the proposed bases of professional and research practices of students, undergraduates and doctoral students: “Kazakhtelecom” JSC, “Kazdream Technologies” LLP, “G1 SoftwareKazakhstan” LLP, “OPEN SYSTEMS DEVELOPMENT” LLP, “QLT” LLP, "Kazakhstan GIS Center" JSC , LLP “ArtaSoftware”.

An annual examination of the methodological support of the EP is carried out at the level of meetings of the department, the council of the faculty and the Academic Council of KATU. Catalogs of elective disciplines are available on the university website (https://kazatu.edu.kz/assets/i/ked/mop-8D06103-2020-ru.pdf, https://kazatu.edu.kz/assets/i/ked/ked-7M06102-8D06103-2020-ru.pdf).

Analysis of the results of the EP survey showed a high level of student satisfaction with the quality of EP implementation, of which:

1. Material and technical base. “Quite satisfied” - 83%,

2. Technical equipment. “Quite satisfied” - 72%

3. The level of educational and methodological support of classes. “High” - the opinion of students is 88%.

4. The quality of the teaching staff. "Very high" - the opinion of students is 89%

5. Organization of students' independent work. “Organized at a high level” - the opinion of students is 77.5%.

The results of sociological research are stored in the department that conducted the sociological research.

At the end of each academic year, the ICT Department draws up a report with the analysis of the achievement of the goals set out in its work plan, and reports to the faculty and University council. After listening, the reports are sent for revision based on comments or undergo final approval.

Analytical part

Different faculties and departments that make up the structure of KATU are at different levels in terms of readiness and ability to implement all aspects of quality policy in the field of EP management, due to factors of their previous development history. The Department of ICT began training specialists on EP 6B06102 –“Business Informatics” from 2019-20 academic year, according to EP 7M06103 –“Information business analytics” and EP 8D06103 –“Modeling and optimization of business processes” from 2020-21 academic year.

EP management of all three levels of training 6B06102, 7M06103 and 8D06103, implemented by S. Seifullin KATU, is provided with an appropriate organizational structure and, in general, meets the criteria of the Standards for specialized accreditation of educational programs of higher educational institutions of the NPF "Independent Agency for Accreditation and Rating".

The objectives of the EP of three levels of training are developed in accordance with the vision and strategy of KATU-2025, and have clearly defined the learning outcomes. It should be noted that in EP 6B06102 –“Business Informatics” the presented learning outcomes practically do not reflect the requirements of professional standards posted on the website of NCE Atameken (https://atameken.kz/ru/services/16). In EP 7M06103 –“Information Business Analytics”, the connection with the PS is closer and more evidence-based. For the doctoral level, there are no requirements for connection with the PS.

In EP 6B06102 –“Business Informatics”, the relationship between scientific research, teaching and learning is practically not reflected. In EP 7M06103 –“Information Business Analytics” and EP 8D06103 –“Modeling and Optimization of Business Processes”, part of the elective disciplines can be attributed to the results of scientific research of the teaching staff of the department (in the magistracy: “Simulation Systems”, “Information Technologies of Mathematical Modeling”, in doctoral studies: “Analysis and improvement of business processes of IT-structures”; “Research methods of analysis and synthesis of business processes”). The teaching staff of the department does not participate in the implementation of projects of the SF MES RK. There are no internal, proactive, grants at the department. It was not possible to establish how the scientific research of the teaching staff of the department is reflected in the topics of term papers, in the topics of bachelor research work, master course students’ research work, doctoral research work.

One of the main requirements for the development of the EP has not been fulfilled - the mandatory participation of students: on the approved EP, students are not indicated among the signers.

Stakeholders-employers take part in the development of the EP, however, their role in quality control of the EP and in the development of the EP development plan is minimal. In fact, there are no employers’ recommendations for individual elective disciplines of EP, there is no

control over the compliance of the learning outcomes of elective disciplines with EP PS NCE Atameken.

The process of quality control of EP management is irregular, since the presented protocols are of a one-time nature. A systematic discussion of activities under the EP Development Plan is not noted either at the level of the department or at the level of the faculty.

The management of the EP is not sufficiently clear in managing risks: according to EP 7M06103 –"Information business analytics", 8D06103 –"Modeling and optimization of business processes" there is no recruitment for training in the 2019-2020 academic year. Measures to update the content of these EPs, taking into account the educational services market in the 2020-21 academic year, have not been considered. For the specialty 8D06103 –"Modeling and optimization of business processes", a great risk is the lack of specialists who meet the requirements for the supervisors of doctoral students.

Analysis of internal conditions for the development of EP (financial, informational, material and technical base); the analysis of the staff that implements the EP is carried out at the meetings of the ICT Department and the Faculty Council. However, during meetings with the authorities of the university, teaching staff and heads of departments, an answer was not received to the question of what quantitative or qualitative indicators characterize the development of the EP, and with which strategic documents the development indicators of the EP are associated.

Also, it was not possible to establish the financial security of the EP and each event according to the Development Plan of each EP of the ICT Department separately. Information on financial support is presented on the website for the university as a whole, without breaking down into EP (https://kazatu.edu.kz/ru/ob-universitete/finansovaya-otchetnost/).

Strengths/Best Practice

- The quality assurance policy is implemented through the processes and standards of internal quality assurance, which involve the participation of all departments of the university. The"Academic Policy"hasbeendevelopedfor students.
- EP of all levels of training are developed in accordance with the National Qualifications Framework, professional standards and agreed with the Dublin descriptors and the European Qualifications Framework.
- The university develops a culture of quality both at the institutional level and at the EP level, monitoring of the development, implementation and evaluation of the EP is carried out in accordance with the developed QMS procedures.
- The university demonstrates a clear distribution of those responsible for business processes within the EP, an unambiguous distribution of job duties of personnel, delineation of the functions of collegial bodies
- The EP management ensures the transparency of the EP development, the timing of the start of implementation, and the EP availability to all interested parties on the university website.
- The presence of interested parties in the collegial bodies of the university and their participation in the development of the EP was observed
- EP management is open and accessible to students and teaching staff, which was established during interviews with them.

Recommendations of EEC for EP "6B06102 Business Informatics", "7M06103 Information Business Analytics", "8D06103 Modeling and Optimization of Business Processes":

- When developing an EP in terms of describing learning outcomes, it is necessary to focus on the requirements of the PS NPP Atameken.
- Update the learning outcomes on the basis of regular revision of EP, EP development plan and monitoring of their implementation.

Recommendations of the EEC for EP "6B06102 Business Informatics"

- Conduct an annual analysis of the CED EP and involve employers to expand it.

Conclusions of the EEC on the criteria for the EP "6B06102 Business Informatics": strong –4; satisfactory – 6, needs improvement – 5.

EEC conclusions on the criteria for the EP "7M06103 Information Business Analytics", "8D06103 Modeling and Optimization of Business Processes": strong –8; satisfactory – 6, needs improvement – 1.

6.2. Standard "Management of information and Reporting"

Proof part

EEC confirms that to automate the process of collecting, analyzing and managing information, KATU has introduced and operates systems for collecting, analyzing and managing information based on the use of modern ICT and PS: information management within the framework of the official website of the university (www.kazayu.kz), management system document flow ARTA Synergy (http://adp.kazatu.kz/Synergy/index?locale=ru), management of academic information within the AIS "1C University PROF", formerly "Platonus" (https://platonus.kazatu.kz/), integrated library information systems, programs "1-C Enterprise" and "Personnel-University". To account for the work of the curators of academic groups, the system "Electronic Journal of the Curator" has been developed; for accounting and control of places in the hostel there is the "Hostel" system . The University participates in public procurement using the "State Purchase" system.

The functionality of the AIS "1C University PROF" allows you to monitor the dynamics of the number of trainers by generating reports in the context of forms and types. The system reflects the level of academic performance ("Journal"), student achievement and their expulsion ("Card file"). AIS "1C University PROF" also allows you to conduct a survey of students ("Questionnaire") on the satisfaction of students with the implementation of EP and the quality of education at the university.

The university is connected to the AIS ESUVO MES RK, periodically receives unloading from the system in the context of the lists of students, in terms of quantitative and qualitative indicators of teaching staff, information on the material and technical support of the university, provision of dormitories, employment of graduates, etc.

Information from the systems "1C University PROF", ESUVO, "1-C Enterprise" and "1-C Personnel accounting", library resources allows the management of the educational department of the ICT department, the teachers of the department to timely track all changes regarding the internal conditions for the development of the educational program, staff implementing EP and use the information received to improve the internal quality assurance system.

The functioning of the EP at the university is based on the use of information technologies. The university has a council for informatization, which is a permanent coordinating and advisory and scientific advisory body of the university for solving problems on the use and development of information technologies. The informatization policy is regulated by the Regulation on the informatization council of S. Seifullin KATU JSC (RIC QMS 09.9017-2017).

To ensure the transparency of the EP management system, the university administration communicates all information and management decisions taken to the students. For these purposes, the EP management uses all communication channels: department meetings, information stands, the Platonus system, the university website, the educational portal of the university, the social network Facebook (https://www.facebook.com/groups/542892392559868 Faculty of Computer Systems and vocational education) and the newspaper "My University".

Evaluation of the effectiveness and efficiency of the Department of ICT in the context of the implementation of EP of all three levels is based on the analysis of reports, information,

materials obtained as a result of internal and external audits. The Academic Council of the university, the Academic Council of the Faculty, the teaching staff of the department, employers take part in the issue of assessing the effectiveness and efficiency of the department in the context of the implementation of the EP. This procedure allows you to constantly work to improve the effectiveness of training and get rid of EP elements that have proven to be ineffective. The assessment of the key performance indicators of the training allows you to determine whether the planned results have been achieved and identifies areas for improvement or change.

The Commission notes that the analysis of information is carried out by methods of comparison of indicators, the assessment criteria for which are set out in the provisions on internal and departmental regulatory documents. The results of the analysis are reflected in certificates, reports of structural divisions of the university and are provided to responsible persons for making decisions on improving the process. To assess the effectiveness of the development of the university, the EP uses QMS mechanisms, internal and external audits, within the framework of which inconsistencies are identified, for the elimination of which corrective actions are developed with deadlines and performers (DP QMS 01.1008-2020 Internal audit, DP QMS 01.1009-2020 Corrective actions, DP QMS 01.1010-2020 Preventive actions).

The exchange of operational information between structural units of the university is carried out on the internal local Intranet chat. Documentation for the use by all departments of the university is available in ARTA SYNERGY in the “Storage” section.

The library is the main information resource potential of the university. In modern conditions, the information capabilities of the KATU library have been significantly expanded due to participation in various associations of libraries. Students and teaching staff have access to the Kazakhstan National Electronic Library (http://kazneb.kz/), the Republican Interuniversity Electronic Library (www.rmeb.kz), the Elibrary.ru scientific electronic library, the Lan electronic library system (https: // e .lanbook.com /), Elsevier publishing house (https://elsevierscience.ru/), Web of Science (https://www.thomsonreuters.com/en.html), Scopus (https://www.scopus.com /home.uri).

When studying the library fund, a set of special methods is used: statistical, bibliographic, sociological, mathematical modeling, graphic methods, correlation and factor analysis, etc. Basic information for studying the fund is statistics on such indicators as: the size of the documentary fund, the volume of new acquisitions, the volume of disposal , lending, number of readers, book availability, etc. The qualitative aspect of the composition and use of the fund allows us to present the study of the structure of the fund and book loans.

The university developed the QMS 11010.75-2014 “Regulation on the privacy policy in JSC “S. Seifullin KATU”, QMS 07.70203-2018 “Regulation on the protection of personal data of employees of JSC “S. Seifullin KATU”, which spell out the processing procedure and privacy policy. Confidential information is information relating to each individual member of the RP, which is placed in the Platonus database, to which only the user has access.

Students, employees and teaching staff write an application addressed to the rector, where they express their consent to the processing of personal data. For example, a student, on a voluntary basis, writes a statement to the rector with the following content –“I give my consent to the processing of my personal data for the entire period of study, which is necessary to fulfill the contract of educational services.” The written consent of students at KATU for the collection and processing of personal data of employees and students was not presented to the commission.

In the structure of the university, the department “Department of Information Technologies” is defined, whose employees are responsible for maintaining the confidentiality of information.

The teaching staff, students, employers are involved in the processes of collecting and analyzing information through questioning, interviewing and making decisions based on them. The practice of personal meetings of the university and faculty leadership with participants in the educational process is widely used: students, undergraduates, doctoral students, teaching staff.

Seifullin KATU has established and documented mechanisms for resolving conflicts by students, employees and other interested parties: QMS 04.4005-2019 “Regulations on the procedure for considering student complaints by the university administration”, QMS 11010.84-2014 “Regulations on the procedure for considering complaints from employees” of JSC “S. Seifullin Kazakh Agro Technical University” and QMS 11010.114-2015 "Regulation on the procedure for considering complaints in JSC “S. Seifullin Kazakh Agro Technical University”.

In case of complaints and suggestions from students during their studies at the university, in accordance with the Regulation “On the organization of the educational process on the credit system of education” at “S. Seifullin KATU”, they have the right to file a complaint.

In general, the EEC notes that the university uses modern information systems, information and communication technologies and software tools in order to adequately manage information. Based on the analysis of the facts, the EP management evaluates the effectiveness and efficiency of EP implementation, demonstrates informed decision-making and identifies opportunities for improving its quality.

Analytical part

Analysis of the submitted documents confirmed that the functioning of information systems for collecting, analyzing and managing information is regulated by the regulatory documents of the university: QMS 09.9011-2019 Regulations on the official information site of S. Seifullin KATU, QMS 11010.87-2014 Regulations on the corporate information network of JSC “S.Seifullin”, QMS 11010.109-2015 Regulations on the blogging of the Chairman of the Board of S.Seifullin KATU, QMS 3.5.01-2015 Management of information resources of the library, QMS 110.25-2013 Servicing EDMS ARTA SYNERGY.

In the course of managing training, educational, financial, etc. the processes form the main information flows. Databases collected as part of the university activities allow it to generate a variety of analytical reports based on the analysis and processing of the information received on the educational work of the AIS “1C University PROF” and various subsystems of the AIS “1C”.

At the same time, the EEC notes that when interviewing the teaching staff and the head of the department, it was not possible to establish the frequency, forms and methods of assessing EP management, as well as a list of key performance indicators of the EP. It was not possible to establish what indicators are set by the Development Program of JSC S. Seifullin Kazakh Agrotechnical University for 2016-2020 and the Strategy of KATU-2025. It was not possible to establish the frequency of reporting on the scientific projects of the department; supporting documents were not presented to the commission.

The use of rating analysis contributes to the implementation of an effective personnel policy, the identification of individual abilities and professional skills, an increase in responsibility for the assigned work at all levels, the legal and social protection of teaching staff, heads of departments and deans. Its results are used by the authorities of the university when making decisions on the extension of contracts, personnel appointments, when determining the amount of salary allowances for teaching staff, heads of departments, deans and their deputies.

The properties and characteristics of the collected and processed information are determined in accordance with the mission of the university and is aimed at finding the most effective and efficient methods and ways to improve the quality of educational and related services, as well as to improve the level of social conditions of workers and students.

Thus, KATU collects and analyzes information to improve the internal quality assurance system, which is carried out through the monitoring system of the university activities and the quality of education.

Strengths / Best Practice

- Functioning of the system for collecting, analyzing and managing information based on

the use of modern information and communication technologies and software.

- Availability of a communication mechanism with students, employees and other stakeholders, including the availability of mechanisms for resolving conflicts;
- Ensuring the protection of information, identifying persons responsible for the accuracy and timeliness of information analysis and data provision.
- Information and library resources used to organize the learning process are sufficient and meet the requirements of each implemented educational program of the ICT Department.
- Availability of personal data processing procedures and compliance with the privacy policy.

Recommendations of EEC for EP "6B06102 Business Informatics", "7M06103 Information Business Analytics", "8D06103 Modeling and Optimization of Business Processes":

Develop quantitative indicators for assessing ongoing activities in the framework of reporting on the effectiveness of EP implementation

Conclusions of the EEC on the criteria for the EP "6B06102 Business Informatics": strong – 5; satisfactory –5, needs improvement –6.

Conclusions of the EEC on the criteria for the EP "7M06103 Information Business Analytics", "8D06103 Modeling and Optimization of Business Processes": strong –12; satisfactory – 2, requires improvement – 2.

6.3. Standard "Development and approval of educational programs"

Proof part

The University provides education in accordance with the state license № 0062189 SERIES AB dated 02.07.2008 and annexes to it for 47 bachelor EPs, 53 master EPs and 33 PhD of doctoral studies.

The development and approval of educational programs is carried out in accordance with the provisions of regulatory legal acts in the field of higher and postgraduate education, as well as documentation developed by the university to ensure transparency and clarity in the implementation of development strategy directions (ES QMS 02.2008-2019 Structure, content, procedure for development and approval of the educational and methodological complex of the educational program and the educational and methodological complex of the discipline, PDPDEPMI QMS 02.2034-2018 Regulations on the procedure for developing a plan for the development of educational programs and monitoring its implementation).

MEP, are developed for the entire period of study on the basis of standard curricula and are approved by the rector on the basis of the decision of the Academic Council of the University, taking into account the interests of employers. On the basis of the EP, curricula (C) are developed for the entire period of training in the EP and for each academic year. The EP contains goals, expected results, a list of competencies and qualifications. Qualifications correspond to a certain level of a national qualifications framework, an industry qualification framework and professional standards in higher and postgraduate education.

Employers from among the heads of practice bases, representatives of enterprises (UvalievZh.E., executive director of the Kazakhstan Association of IT Companies) are involved as developers of the EP of the Department of ICT. The EP is evaluated by both external and internal experts. The EP of the department were reviewed and approved at a meeting of the ICT department (minutes # 12 of 02/13/19), a meeting of the board of the KSiPO faculty (minutes # 11 of 02/14/19), a meeting of the Academic Council of KATU (minutes # 15 of 05/30/19).

The ongoing changes in the labor market requirements for EP training results are reflected in the specific proposals of employers in the form of adjustments to the content of the studied disciplines and professional practices, which are discussed at the meetings of departments, and then introduced into the EP. Taking into account the requirements of the labor market and the proposals of employers, the university in 2019 began training in 5 new double-diploma EPs with the leading agricultural university in Europe AgroParisTech, France, which ranks 4th in the world, according to EP 6B06102 –"Business Informatics", 7M06103 –"Information business analytics", 8D06103 – "Modeling and optimization of business processes." The ICT Department plans to develop a two-program EP at the master level in cooperation with the universities of France Agreenium and AgroParisTech.

All specialties and groups of educational programs are provided with EP and working curricula of specialties, standard and working programs of disciplines, CED. The general availability of the content of the EP is ensured by the placement on the internal portal of the university of GOSO, SEP, on the university's website of a guidebook, EP, CED, the EP development plan. At the same time, timetables of classes, syllabuses, IEP of students are posted in 1C University PROF. The IEP of students is formed on the basis of the State Educational Standard, the list of disciplines of the university component and disciplines of the CED EP. The availability of EP information support is confirmed by the availability of educational materials in the EP disciplines in the library.

The maximum volume of the student's academic load, including all types of classroom and extracurricular educational work, meets the requirements of the State Educational Standard of the Republic of Kazakhstan for educational levels. The qualifications obtained upon completion of the programs are clearly defined and correspond to the level of the NQF: for undergraduate – 6 level, for master – 7, for doctoral studies – 8. General and professional competences are described for these qualification levels using the European qualifications framework for higher education.

In accordance with ES QMS 02.2008-2019 "The structure, content, procedure for the development and approval of the educational-methodological complex of the educational program and the educational-methodical complex of the discipline" for each EP, a CED is developed, which is a systematized annotated list of all EP disciplines, including those included in component of your choice. All information about CEDs is posted on the external portal on the pages of departments (https://kazatu.edu.kz/ru/obrazovanie/fakulteti/ksipo/kafedra-informacionno-kommunikacionnih-tehnologiy) and the internal portal, and information on the results of registration of students for disciplines the academic year is posted on the student portal in AIS Platonus.

Experts note that the content of the EP of the ICT Department, the sequence of their implementation correspond to both regulatory requirements and the demands of the labor market. Professional practice is an integral part of the EP, its passage is regulated by the documents of the MI QMS 02.2017-2020 The procedure for organizing and conducting practical training for students, MI QMS 02.2020-2020 The procedure for organizing and conducting practical training for undergraduates / doctoral students. For students of EP at the undergraduate and graduate level of the Department of ICT, within the framework of practices, it is planned to take professional certification in the courses "Using Cisco Network Equipment", "Installing and Configuring Windows Server", "Windows Server Administration", "Oracle Database", "System Administration Red Hat Linux" At the Training Center "ELTC" LLP, followed by passing the certification exam. The IT Training Center functioning at the faculty of CSVE received the status of the "RedHat Academy". Currently, 35 trainees are being trained in this course.

Experts note that on the basis of the "Regulations on the organization of external academic mobility of students" in accordance with the Dublin descriptors, the university has adopted a system for converting Kazakhstani credits into ECTS credits, accounting for the labor intensity of disciplines, modules, as well as the workload of the teaching staff and student employment during the academic period. Conversion of RK credits into ECTS credits and vice

versa is carried out on the basis of conversion factors, one ECTS credit is equal to 30 academic hours.

The volume of credits allocated for the study of educational modules and academic disciplines is determined by their complexity and importance in professional training.

The CSVE Faculty of KATU has a successful experience in the implementation of the double-diploma master degree EP 7M06101 “Information systems and IT solutions by industry”, EP 7M06108 “Computing systems and technologies” with the University of Milan (Italy, Milan). In accordance with the concluded agreement, the studied disciplines were transferred to each of the universities and the diplomas of the Kazakhstan and foreign universities were issued.

Analytical part

During the visit, the experts analyzed modular educational programs 6B06102 –“Business Informatics”, 7M06103 –“Information business analytics”, 8D06103 –“Modeling and optimization of business processes”, educational and methodological support for their implementation. The documentation was developed in accordance with the intra-university guidelines and regulatory requirements of the Republic of Kazakhstan.

The analysis of the developed EP showed the presence of an EP passport with a description of the goals and learning outcomes, the general characteristics of the program with a graduate model and a description of the key competencies acquired by students. Depending on the level of education, the knowledge, skills and abilities of students deepen and improve from undergraduate to graduate and doctoral studies. When developing a model of graduates for three levels of training, we would like to track the compliance of the described competencies of the PS NCE Atameken.

The university has not adopted the practice of approving the EP for each new academic year, if the original version of the OP, the EP code and the name are not changed. Only EP 8D06103 was reapproved due to changes in the list of disciplines (minutes of the meeting of the Academic Council No. 15 of May 28, 2020). So, the commissions are not given the EP 6B06102 – “Business Informatics”, 7M06103 –“Information Business Analytics”, 8D06103 - "Modeling and Optimization of Business Processes" for the 2020-21 academic year, since the department works according to the approved EP in 2019 -20 academic year.

Only 1 company is involved in the development of EP of all three levels: ALE Kazakhstan Association of IT Companies. The question arises about the adequacy of the qualifications of the developers of EP 8D061 “Modeling and optimization of business processes”, since lecturers of the department who do not have an academic degree are involved in the development of the EP (Koksegen A.E., Nurpeisova A.A., Smailova L.K.).

The ICT Department has created the conditions for internships: programs have been developed for educational and professional practice of bachelor degree, the content of which corresponds to the goals and objectives of training specialists; at the end of the internship, students 'reporting documents are collected and analyzed, work is underway to summarize the results of the internship and, together with the approved composition, the commission accepts the students' credit based on the results of the internship in the prescribed manner. At the time of the visit, for students of EP 6B06102 –“Business Informatics”, only educational practice was held for the 1st year, for the professional practice of 2nd year students, provided for in the 3rd trimester of the 2020-21 academic year, no contracts were submitted.

EP are annually updated taking into account the interests of the labor market. In order to study the interests of employers in the development of EP, during the academic year, meetings, round tables with employers, with the participation of interested parties and persons are regularly held (Minutes № 6 of the meeting of the Board of Trustees dated 13.02.2020).

Strengths / Best Practice

- The procedures for the development of EP and their approval at the institutional level have been determined and documented.
- Working groups have been formed to develop EP, which include teachers, employers, external experts are involved.
- Compliance of the developed EP with the established goals, including the expected results.
- The ability to prepare students for professional certification through the organization of professional practices in courses for IT vendors.
- The content of academic disciplines and learning outcomes correspond to the level of education (bachelor's, master's, doctoral studies).

Recommendations of EEC for EP "6B06102 Business Informatics", "7M06103 Information Business Analytics", "8D06103 Modeling and Optimization of Business Processes":

- To improve on an ongoing basis the model of graduates at all levels of EP of the Department of ICT, taking into account the requirements of the PS NCE Atameken in the IT industry.
- Conclude bilateral agreements with practice bases before the start of the academic year.

Conclusions of the EEC on the criteria for the EP "6B06102 Business Informatics": strong –3; satisfactory –7, requires improvement –2.

EEC conclusions on the criteria for the EP "7M06103 Information Business Analytics", "8D06103 Modeling and Optimization of Business Processes": strong – 7; satisfactory – 4, needs improvement.

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

Proof part

Analysis of the self-assessment report and familiarity with the university documentation showed that KATU regularly carries out monitoring, analysis and improvement of EP in order to demonstrate the compliance of educational services with the requirements of the State Educational Standard of Education, stakeholders, QMS and continuous improvement of its effectiveness. The monitoring system is based on the "Development Program of JSC "S. Seifullin Kazakh Agro Technical University for 2016-2020", the Strategy "KATU-2025" and RK QMS "KATU-2018 Quality Manual", which provide an objective analysis and assessment of the quality offered by the university educational programs through external and internal audit.

To assess the effectiveness of the EP implementation, such criteria are used as the completeness of the EP structure's correspondence to the structure of the State Educational Standard of Education of specialties in the formation of the student's competence; taking into account the opinions of employers and consumers of educational services.

The dean of the faculty (as chairman of the curriculum committee) and the head of the department (as a member of the curriculum committee) are responsible for the development of working curricula.

Assessment of the quality of EP implementation is carried out within the framework of the general monitoring system for the quality of education, which consists of:

- in the assessment of EP management (the level of teaching staff, organization of the educational process, regular assessment of the level of achievement of program goals, the demand for graduates);
- EP implementation (curriculum, standard discipline programs, methodological and information support, infrastructure, educational technologies, research and development);

- EP results (intermediate certification, final certification).

Internal control is carried out on an ongoing basis by the Department for educational and methodological work. The analysis and assessment of the degree of customer satisfaction is carried out by the rector, vice-rectors, heads of the EP in the course of their interaction with students (meetings, surveys, answering questions, receiving letters, etc., (PPMFP QMS 01.2020-2020 Regulations on the procedure for managing the feedback procedure in JSC "S. Seifullin KATU").

For the purpose of organizing and conducting a comparative analysis and analysis of factors affecting the effectiveness of educational programs, conducting an internal assessment of the quality of the EP effectiveness, Quality Councils have been created at university faculties (RAQC QMS 02.2064-2020 Regulations on the Academic Quality Council). Quality councils assess the quality of educational and methodological support of EP disciplines, the degree of EP compliance with the needs of the labor market, develop recommendations for improving the EP, analyze deviations from the EP trajectory, develop proposals for corrective measures, analyze and discuss the achievement of learning outcomes by the EP.

A comprehensive check of the departments of the faculty of CSVE for the purpose of monitoring the provision of educational and methodological literature is carried out by the educational and methodological committee of the faculty. During the audit, experts analyze the educational and methodological provision of the EP: the presence of SEP, Curriculum, the provision of EP disciplines (standard program, syllabus, schedules, tasks for the intermediate final certification, tasks of the SS and OH, maps of the methodological support of the discipline).

To control and assess the quality of teaching EP disciplines, mutual visits and open classes of teachers are held (MI QMS 110.17-2016 Procedure for conducting a comprehensive check). At the Department of ICT there is a schedule of mutual visits and a schedule of open classes approved by the department (minutes № 1 dated August 27, 2019, minutes №1 dated August 27, 2020).

External control of the effectiveness of the implementation of EP in KATU is carried out in the course of the work of the SAC, in the course of the external assessment of educational achievements (EEEA), during the attestation and accreditation of the university, internships, writing theses, master and doctoral dissertations. Since the ICT Department has been training specialists for only 2 years, an external assessment of the effectiveness of the EP implementation has not yet been carried out.

The quality of the lessons and the teaching materials used, the timeliness of the assignments to the IWS are regulated by MI QMS 02.2011-2019 "Methodology for the SS and OH at the S. Seifullin Kazakh Agro Technical University."

Assessment of educational achievements and the level of training of students at the university is carried out in accordance with the internal rules and procedures (SO QMS 02.2007-2020 "Control of knowledge and conducting final certification of students", ROEPDET QMS 02.2024-2019 "Regulations on the organization of the educational process on distance educational technologies at S. Seifullin KATU" and is regularly reviewed at the meetings of the department (minutes № 6 dated 10.12.2019, minutes № 12 dated 25.03.2020, minutes № 18 dated 16.06.2020).

The registration of the entire history of the students educational achievements, the organization of all types of knowledge control and the calculation of his academic rating is carried out by a special department of the university - the office of the registrar.

Analytical part

The analysis of the submitted documents showed that all the planned activities carried out within the framework of the implementation and evaluation of the EP are reflected in the university documentation in the form of decisions of the Academic Council, Board of Trustees and Coordination Councils; decisions made in departments; developing a list of: measures based

on the results of internal audits; measures based on the results of external audits; measures based on the results of the analysis of the functioning of the QMS; corrective actions based on the results of identified and potential inconsistencies.

The commission established the existence and functioning of a continuous mechanism for monitoring and periodically assessing the quality of the EP, which is carried out by the university services: departments, deans, the Department of Academic Affairs. This process includes: survey of students, graduates, teachers, employing organizations; analysis of students' progress; information support of the educational process, resource and information support of the EP; analysis of the student assessment system; assessment of the level of competence of teaching staff; the degree of compliance of the EP with the established requirements.

The developers of the EP, as part of the external examination procedure, receive reviews and feedback on the EP, CEDs and SEPs from the leading employers of the industry. Experts note that the revision of the EP is carried out once a year, taking into account changes in the labor market, but it is formal in nature. The submitted protocols (protocol No. 9 of the methodological commission of the Faculty of CSVE dated 03/11/2020) discussing changes in the EP refer to changes in the block of humanitarian disciplines. There were no separate meetings of teachers of the ICT Department on the issues of making changes to the EP in connection with the new requirements of the labor market. The department did not analyze the labor market by reviewing the demand for IT specialists at electronic labor exchanges (hh.kz, olx.kz, kyzmet.kz) and does not track new trends in the IT industry.

There are some discrepancies in the CED EP 6B06102 –"Business Informatics": disciplines that are absent in the EP are indicated as post-requisites of disciplines, such as "ICT Markets and Sales Organization", "Modeling of Processes and Systems", "Mathematical Foundations of Coding Theory", "Simulation modeling","Artificial intelligence". The content of individual disciplines "Data Analysis" (8th trimester), "Packages of static programs" (5th trimester) and "Econometrics for business decisions" (6th trimester) on CED in many ways overlap.

In the CED EP 7M06103 –"Information Business Analytics" as prerequisites, disciplines that are absent in the EP 6B06102 –"Business Informatics" and other EP of the group of specialties "6B06" are indicated. For example, the discipline "Informatics" has long been replaced by "ICT", and the discipline "Mathematical logic and theory of algorithms" is rarely studied in the group of specialties "7M061".

In the regulation PDPDEPMI QMS 02.2034-2018 "On the procedure for developing a plan for the development of an educational program and monitoring its implementation", the possibility of making changes to the EP is declared, but the procedure for approving and making changes to the EP is not described.

Participation in the development of the processes of assessment, analysis and continuous improvement of EP is also regulated in the job descriptions of teachers who annually develop new courses on topical problems of modern science. However, the issues of the content of courses on CED, the justification of their need for the formation of competencies in demand in the labor market are not subjects of the methodological seminars of the department.

Students at the time of their visit to the EEC were not involved in the development of the EP, which is objectively explained by the fact that the first enrollment for EP 6B06102 – "Business Informatics" was carried out in 2019-20 academic year, for EP 7M06103 – "Information Business Analytics" and 8D06103 –"Modeling and optimization of business processes" in the 2020-21 academic year.

The needs of students in the formation of educational programs can be satisfied when choosing elective courses. According to EP 6B06102 –"Business Informatics", the questioning of students on the issue of satisfaction with the EP was not carried out, since the 1st course involves the study of the disciplines of the GED course. When conducting interviews, 2nd year students of EP 6B06102 - "Business Informatics" could not explain the procedure for choosing disciplines for the elective EP block. Also, students do not have a clear idea of the differences

between the university compulsory and elective components.

In EP 6B06102 –"Business Informatics", PS "System analysis in information and communication technologies", "Business analysis in information and communication technologies", "Business analysts and IT project management", which have cards of professions 6 level SQF. Professions specified in the standards: systems analyst, business analyst in ICT (business analyst), business analyst in IT, programmer-analyst, IT project manager, business analysis specialist are incorrectly indicated in the list of professions or absent from it (EP, section 2.4 Potential professions).

Strengths/best practice

- Regular audit of the workload and progress of students.
- The effectiveness of student assessment procedures.
- The presence of an educational environment and support services, and their compliance with the objectives of the EP.
- Bringing to the attention of all interested parties information about changes in the EP.

Recommendations of EEC for EP "6B06102 Business Informatics", "7M06103 Information Business Analytics", "8D06103 Modeling and Optimization of Business Processes":

- Conduct constant monitoring of EP for compliance with the regulatory requirements of the Ministry of Education and Science of the Republic of Kazakhstan, the needs of employers, the latest scientific achievements in specific disciplines and the social demand of society.
- Make adjustments to the CED EP 6B06102 –"Business Informatics", CED EP 7M06103 – "Information Business Analytics" due to the incorrect indication of the prerequisites and post-requisites of disciplines, the list of potential professions according to the PS.
- Reflect the regulations on the approval and amendments to the EP in the regulatory documents of the QMS.
- To intensify work with foreign universities in order to develop joint EP.

Conclusions of the EEC on the criteria for EP "6B06102 Business Informatics": strong –2; satisfactory –4, requires improvement –3.

EEC conclusions on the criteria for the EP "7M06103 Information Business Analytics", "8D06103 Modeling and Optimization of Business Processes": strong –6; satisfactory – 2, requires improvement – 1.

6.5. Standard "Student-centred learning, teaching and performance assessment"

Proof part

EEC experts note that student-centered learning (STL) is a priority direction of the organization of the educational process at the university, in which the teacher and students act as active subjects of the educational process. This approach allows the student to move from the role of a passive receiver of knowledge to the role of a co-author of the teacher in the educational process.

At KATU, social support services for students have been created and are functioning http://kazatu.kz/ru/rabota-s-molodejyu/socialnoe-obespechenie-studentov-universiteta/: student self-government bodies (student parliament, CYA, ASC, student council http: / /kazatu.kz/ru/rabota-s-molodejyu/komitet-po-delam-molodeji/), school of curators, medical cabinet and medical center http://kazatu.kz/ru/rabota-s-molodejyu/studencheskie-obshchejitiya /, sports and cultural and recreational facilities http://kazatu.kz/ru/rabota-s-molodejyu/klubi/, student service points http://kazatu.kz/ru/rabota-s-molodejyu/fakultet-iskusstv- i-tvorchestva /. In

addition to support services, counseling is carried out by curators, advisors, deans, SCS, DAM, etc.

For psychological support of students (psychodiagnostics, psycho-counseling, psychoprophylaxis and psychoeducation), the University created the Center for Contemporary Youth Development (CCYD), designed to provide conditions for the full development of students and the formation of their personality, tracking the dynamics of relationships in student groups, as well as for individual development of personality.

KATU implements a policy of flexible support for students of different categories. For students with disabilities, there are ramps and elevators in the educational buildings of KATU. However, not all KATU dorms have ramps and lifts. For work outside normal hours, students can use the library computer classroom and 3 laboratories of the department (20501, 20504, 20520) with 67 CCs located in them. The buildings have terminals with exits to the local network of the university. Wi-Fi operates in educational buildings and student dormitories.

The University Library Information Center provides access to educational literature for students with hearing and vision problems. Wi-Fi operates in educational buildings and student dormitories.

Material support is provided for students with limited physical and material capabilities (disabled students, orphans, students left without parental care, from large families), a choice of the form of education is provided. To date, 11 students from single-parent families, 16 students from large families (https://kazatu.edu.kz/ru/rabota-s-molodejyu/socialnoe-obespechenie-studentov-universiteta/) study at the EP of the Department of ICT. For this category of students, the university pays 100% of the cost of travel tickets, provides payment for meals in the university canteen, and gives passes to the pool.

At the Faculty of CSVE, the project “Developing Service for individuals with disabilities” is being implemented on inclusive education, funded within the framework of the international program of the European Union Erasmus + (project participant,lecturer, PhD TashkenbaevaZh.M.), within which students of the faculty of CSVE can get free bed in the university dormitory and one free meal.

The university has organized the process of adaptation of foreign students who study in groups with other students, which contributes to the integration of a foreign student into a new social and cultural life. For students actively involved in sports and other activists who are often on business trips, there is a procedure for additional / individual accumulation of points in the disciplines studied.

In order to form the necessary general and professional competencies of graduates of the teaching staff, the ICT Department actively uses in the educational process innovative methods and tools, active and interactive forms of conducting classes (modern software, project methods, teamwork, analysis of specific situations, discussions, various trainings), which are determined taking into account the individual needs of students (lecturer Shaushenov A. G. in the discipline “System Modeling”, lecturer Koksegen A.E. in the discipline “Information and communication technologies”). After the transition to distance learning, Internet resources began to be used more widely while conducting classes, open educational platforms such as INTUIT https://www.intuit.ru/, MOODLE platforms: http://agr.cskz.kz.

The planned learning outcomes are clearly indicated in the EP within the Dublin Descriptors, namely, what graduates should know and be able to do after completing their studies. The EP is implemented using modern and innovative teaching technologies aimed at actively involving students in the educational process and increasing their independence and responsibility for the results of the educational process.

Experts note that for EP of each of the three levels of training, learning outcomes and content of academic disciplines correspond to the level of learning.

The implementation of the EP is carried out on the basis of educational and methodological complexes of the specialty and disciplines and is provided with free access of each student to information and library resources, methodological manuals and recommendations for the

modules of the studied disciplines and all types of educational work: workshops, course and diploma design, professional practice programs, SS.

At all faculties of the university, educational and methodological commissions have been created and are working, which coordinate the work of the teaching staff of the faculty on the methodological aspects of organizing the educational process through the educational and methodological sections of the departments. Work plans of faculty teaching materials and department method. sections are coordinated with the plans of the Academic and Methodological Council of the University and the work plan of the planning and organization of the educational process in accordance with the RCAQ QMS 02.2064-2020 Regulations "On the Council for Academic Quality" and the RMCF QMS 02.2001-2019 Regulations "On the Methodological Commission of the Faculty."

For all disciplines of EP of three levels of training, educational and methodological complexes have been formed in the state and Russian languages. All materials are available on the student portal http://portal.kazatu.kz. Academic disciplines are equipped with educational and didactic materials with a modern level of content and performance – slides, electronic lectures, presentations. To ensure equal opportunities, all EP disciplines are read in two languages and the content of syllabuses in Russian and Kazakh is identical. The teachers of the Department of ICT published 9 textbooks under the stamp of the Ministry of Education and Science of the Republic of Kazakhstan. Electronic textbooks have been developed for all disciplines of the educational program of the ICT Department (18 in Kazakh, 18 in Russian and 5 in English).

Automation of the learning management process (AIS "Platonus") made it possible to achieve transparency of the knowledge control system for all participants in the educational process, and all the results of academic performance are available for viewing online. In accordance with ES QMS 02.2001-2019 "Knowledge control and final certification of students", there is a point-rating system for assessing knowledge with the presentation of all control results in an electronic journal of visits and progress in a computer program. If problems arise during the intermediate certification, students have the right to submit a reasoned written statement either about the violation of the exam procedure, which led to a decrease in the grade, or about the error, in his opinion, of the grade at the exams. The application is considered by the appeal commission appointed by the order of the head of the department.

The infrastructure needed by students to interact with faculty, research groups and librarians leading to mastery of course content includes all types of media – digital, print and multimedia. At the time of the visit, KATU notes the presence of an interactive learning environment that provides students with access to information and its critical analysis, as it is convenient for them in terms of time and place.

The satisfaction of students, glass holders with the conditions and quality of educational services is assessed by collecting and analyzing objective sociological information on the portal http://portal.kazatu.kz/. The Department of Educational Work and the Service of Academic Mentors (Advisors) introduced regular collection and monitoring of data on the current monitoring of progress.

The university has developed a student code of honor (SHC QMS 04.4009-2019 Code of honor of a student at S. Seifullin KATU JSC) in order to form democratic and respectful relationships between teachers, students and the university administration, zero tolerance for corruption.

The results of the questionnaire survey of students showed that -83.3% are completely satisfied with the teaching methods, 16.7% are partially satisfied; the quality of teaching is completely satisfied -90%, partially satisfied -10%; the timeliness of evaluating the results is fully satisfied -86.7%, partially satisfied -13.3%; objectivity of assessment of knowledge, skills and other educational achievements completely satisfied -90%, partially satisfied -10%.

Analytical part

The EEC confirms that the academic policy of the university is aimed at stimulating the motivation of students, the formation of expected learning outcomes and personal qualities of students. The university creates favorable conditions for learning, provides maximum assistance to the personal development and self-realization of each student, as well as the professional growth of the teacher.

In order to implement student-centered teaching at the ICT Department, intellectual development, individual characteristics, and the needs of students are taken into account. The teaching staff of the department uses various methods and technologies of teaching, taking into account the variety of forms of assimilation of information: problem methods, brainstorming, business games, consolidation and study of new material in an interactive lecture (lecture-conversation, lecture-discussion, press conference) heuristic conversation, project development , trainings, case method.

The active activity of students includes the independent formation of an individual educational trajectory, academic freedom in choosing a teacher, transparency and accessibility to the results of assessing the level of learning efficiency and teaching methods, the ability to assess the professional qualities of teaching staff, as well as the material and technical support of the educational process. For each student, unique conditions are created that contribute to effective advancement along the chosen educational trajectory, self-realization of each student.

EEC notes that the use of active and innovative teaching methods by the teaching staff in the educational process leads to an increase in the quality of classes, the interest of students and to their active involvement in the learning process. At the same time, research is not actively carried out in the field of teaching methods of academic disciplines, although the development and implementation of our own innovative teaching methods in educational practice would undoubtedly improve the organization of the educational process.

The methods used by the teaching staff in the implementation of the student-centered approach to learning mainly use the following components: group project work, the method of analysis of specific situations (case method); classroom workshops; group presentations; the use of the web conferencing environment, especially in distance education, according to the department's self-report. The Commission notes that during a random check of syllabuses (“Information and communication technologies”, lecturer Zhumaseitova S.D. and “Risk management” EP 7M06103 –“Information business analytics”, lecturerBateshov E.A.), these teaching methods are not specified.

The educational process of the ICT Department determines the structure and content of the student's activities, that is, the design of educational and cognitive activities leads to a high stability of the success of almost any number of students.

To establish the needs of various categories of students, the ICT Department conducts an analysis of academic performance in the context of EP, taking into account the nature of students' appeals to dean's offices and other structural divisions.

In general, the freedom of choice, ensuring equal opportunities for students in the implementation of the EP of the department, is achieved by the completeness of the educational-methodological, organizational-methodological and informational support of the educational process in the languages of instruction: state, Russian, English. Information material on the website of the university for all interested parties is also presented by language. Unfortunately, according to the link indicated in the department's self-report: https://kazatu.edu.kz/ru/rabota-s-molodejyu/komitet-po-delam-molodeji/kodeks-chesti/ it is not possible to view the Code of Honor, due to the lack of information on the page at the time of visiting the EEC university.

Strengths / BestPractice

- Use of credits (ECTS) and modular learning by KATU provide students with a choice of

what to study.

- KATU adheres to the policy of defining, using and disclosing learning outcomes in syllabuses of disciplines, which allows at an early stage of EP design to focus on the needs of students and strengthen the teaching mission of the university.

- Students are assessed according to the criteria, rules and procedures published in the syllabuses and consistently applied, and have the opportunity to appeal.

- KATU creates conditions for the formation of an active role of students in the educational process through the structures of the YAC, the Faculty of Arts and Creativity, scientific circles, debate clubs, etc.

Recommendations of EEC for EP "6B06102 Business Informatics", "7M06103 Information Business Analytics", "8D06103 Modeling and Optimization of Business Processes":

- Carry out on a systematic basis research in the field of teaching methods of academic disciplines and draw up an action plan for the introduction of new developments in educational practice in teaching methods.

- Introduce the practice of reviewing assessment methods, ensuring that they take into account the impact of the learning environment.

EEC conclusions on the criteria for EP "6B06102 Business Informatics", "7M06103 Information Business Analytics", "8D06103 Modeling and Optimization of Business Processes": strong – 6; satisfactory –4.

6.6. Standard "Students"

Proof part

The policy of forming the enrollment at KATU is to admit to the number of students, undergraduates and doctoral students those who are most prepared for studying at the university, consciously choosing the desired specialty and is regulated by the Model Rules for admission to training in educational organizations (Resolution of the Government of the Republic of Kazakhstan, № 111 01/19/2012).

In 2019, at the university, the indicators of the average score of applicants who entered the university according to EP, in 2015 the indicator was 64.1 points; in 2016 - 64.5; in 2018 - 74.9. In 2020-21 academic year the enrollment of EP 6B06102 –"Business Informatics" enrolled 3 holders of "Altynbelgi", 1 student with honors after college.

According to EP 6B06102 –"Business Informatics", the first enrollment was carried out in the 2019-20 academic year, on EP 7M06103 –"Information business analytics" and 8D06103 –"Modeling and optimization of business processes" in the 2020-21 academic year. Training is carried out only in full-time education.

The enrollment

Bachelor		
Academic year	2019-2020	2020-2021
Form of training	Full-time	Part-time
Bachelor	59	24
Магистратура		
	2019-2020	2020-2021
Form of training	Full-time	Part-time
Masters	-	8
PhD		
		2020-2021

Form of training	2019-2020	Full-time
Phd	-	1

The movement of the contingent is reflected in monthly reports within the university and in the statistical form 3-NK, approved by the Committee on Statistics of the Republic of Kazakhstan, as well as in the reports of the ESUVO MES RK.

1st year students are introduced to the mission, the academic policy of the university, the procedures for assessing educational achievements, information about the EP, the possibilities of students to take part in the development of the EP through the graduating departments; acquaintance with faculties and departments, library, student communities, representatives of sports clubs passes. Each enrolled student is provided with a guidebook, all academic information is available for students on the information and educational portal (www.portal.kazatu.kz).

For the purpose of transparency in the conduct of intermediate and final attestations, the university operates a “Box of Trust”, “Blog of the Rector of S. Seifullin KATU”, where students can comment on the conduct of exams, on the quality of the preparation of examination materials, etc.

KATU, in accordance with the Mission, is focused on training personnel for the agro-industrial complex of the Republic of Kazakhstan. Therefore, the main contingent of students is graduates from rural areas, who initially find it difficult to adapt to life in the capital. In this regard, KATU provides places in dormitories, psychological counseling for students.

According to the academic rules of the university, the transfer (threshold) GPA level for transfer from course to course is established by the decision of the Academic Council of KATU. The university has established the following transfer (threshold) GPA levels: from 1 course to 2 course – not less than 1.86; from 2 courses to 3 courses – not less than 2.0; from 3 courses to 4 courses – at least 2.1; for undergraduates and doctoral students – at least 2.3.

Foreign students study in multinational groups, which contributes to the adaptation of a foreign student to a new social and cultural life. 127 students from the Islamic Republic of Afghanistan, China, Germany, Mongolia, Turkey, Russia, Georgia, Uzbekistan, Tajikistan, Ukraine, Kyrgyzstan and Azerbaijan study at the university

On a paid basis, the university organizes courses for foreign citizens with the aim of mastering the state and official languages of the Republic of Kazakhstan and obtaining additional academic skills to meet all the requirements of studying at KATU in case of admission to a university.

Every year, the teachers of the department carry out systematic work with students to prepare research papers and reports for speaking at scientific conferences. Within the framework of the April Days of Science, the teachers of the department hold Olympiads in information and communication technologies among students of 1-3 courses, the winners of which are awarded with diplomas and memorable gifts.

EEC confirms that all academic information is available on the information and educational portal of the university (www.portal.kazatu.kz) with the ability to enter users both for internal networks and via the Internet.

Requirements for educational organizations to conduct external academic mobility and practice bases are fixed in the following documents: – ROEAMS QMS 11010.98-2014 – “Regulations on the organization of external academic mobility of students at the S. Seifullin Kazakh Agro Technical University”; - MI QMS 02.2017-2017 –“Procedure for organizing and conducting practical training of students”; - MI QMS 02.2020-2017 –“The order and organization of practical training of undergraduates / doctoral students.”

To guarantee objective recognition of higher education qualifications, periods of study and prior education, the university has developed ES QMS 02.2065 - 2020 “Recognition of learning outcomes of the previous level of formal education and transfer of disciplines studied earlier”, which regulates the procedure for recognition. In order to ensure proper recognition procedures, KATU: ensures that the activities of the educational institution comply with the

Lisbon Recognition Convention; collaborates with other educational institutions and national ENIC / NARIC centers to ensure comparable recognition of qualifications in the country.

To implement the strategy of internationalization and development of academic mobility programs, the university signed 180 memorandums and agreements with foreign universities and scientific organizations (https://kazatu.edu.kz/assets/i/crms/dogovor_CRMS-PYaO.pdf). At the time of the visit to the EEC, there were no facts of participation of students of the EP of the Department of ICT in the university mobility program.

Over the past three academic years, the main emphasis on improving the efficiency of production practices at KATU has been carried out through the branches of departments in production – the organization of classes in professional disciplines and conducting production practices directly in the existing production. Planned places of practice have been established for the students in the educational program of the ICT Department: Agrofirm“Rodina”, Bayserke-Agro, JSC “Kazakhtelecom”, LLP “ARTASoftware”, LLP “Kazdream Technologies”, JSC NC “KazakstanKarayshSapary”, JSC NIT, JSC NAT, LLP E-commerce Center, Kazaktelecom JSC, Kazpost JSC, etc.

When visiting the EEC, a meeting was organized with representatives of practice bases and branch enterprises of departments (GIS-center KATU, QaZCloud LLP (Kazcloud), KazmediaOrtalygy Management Company LLP), who positively responded about the experience of organizing professional practices with the CSVE faculty.

EEC notes that the university has organized systematic activities for the employment of graduates in conjunction with the regional Department for the coordination of employment and social programs, vacancy fairs and monitoring of employment of graduates and their career development are held annually. According to the rating of NPP Atameken, the employment of KATU graduates is 69.23%, in IT specialties – on average 76%(https://atameken.kz/ru/university_ratings). The university provides graduates with documents confirming the qualifications received, including the learning outcomes achieved, as well as the context, content and status of the education received and evidence of its completion.

To ensure the conditions for the education of students with disabilities and with special educational needs, a barrier-free educational environment has been created at KATU. CSDY develops practical recommendations for organizing the process of complex psychological and pedagogical support for disabled students and students with developmental disabilities in the process of studying at a university. 95% of the needy students are provided with a hostel, but the environment is not accessible and comfortable for disabled students in all hostels.

During the period of study, opportunities are created for students to receive additional education – courses are held on an ongoing basis by the training center “Academy RedHat”. During the quarantine period of 2020, the Institute for Advanced Studies and Distance Learning (IQU&DL) organized additional courses for students and teachers in separate chapters of mathematics, programming courses in Python.

EEC notes that the university provides an opportunity for students to exchange and express opinions through the Internet forum, student organizations. One of the effective forms of interaction with young people is their involvement in the management bodies of the university: YAC, ASC, student parliament, student council, student trade union committee. The student community is represented in the Academic Council of the University, the Commission for the allocation of places in dormitories, the Commission based on the results of questioning students based on the results of sessions for corruption risks.

The university has 27 student clubs, including the debate club “Amanat” and the intellectual club "Elite", contributing to the development of leadership and intellectual qualities, public speaking skills of young people, the club "IT specialists" to establish informal contacts with specialists in various fields of activity and professional IT specialists (https://kazatu.edu.kz/ru/rabota-s-molodejyu/klubi/tvorcheskie-klubi/).

The sports club of the university organizes the work of sports sections in 18 sports and 2 health groups, in which more than 500 students are engaged. Good conditions for sports have been created for students.

To maintain feedback and monitor the professional activities of graduates of different years, the university website (http://www.kazatu.kz) is used under the Alumni Club heading (https://kazatu.edu.kz/ru/ob-universitete/klub-vipusknikov/) and widely used social networks (VK, Instagram, Facebook). The Alumni Club assists in the education of students from low-income families, orphans, creatively gifted students who need material support by awarding them personal scholarships and other assistance. An important factor is also the availability of support programs for talented students and their ability to continue their education in educational programs of postgraduate education in the magistracy and doctoral studies.

Feedback from the department is available to students. The contacts of the department are indicated on the department page on the university website (https://kazatu.edu.kz/ru/obrazovanie/fakulteti/ksipo/kafedra-informacionno-kommunikacionnih-tehnologiy/kontakti-kafedri-ikt/).

Analytical part

Experts of the EEC IAAR note that KATU has a transparent policy for the formation of a contingent of students, approved procedures that regulate the life cycle of students. An analysis of the student body over the past five years indicates its positive dynamics.

University policy is aimed at the objective recognition of higher education qualifications, periods of study and prior education, and is designed to ensure successful student learning and academic mobility.

The EEC Commission is not familiar with the procedures for the recognition of non-formal education at the university provided by specialized organizations in the form of short-term courses, seminars, trainings, master classes.

Extracurricular activities and educational institutions of higher education are aimed at the formation of a socially adapted personality with an active civil position, a sense of patriotism and tolerance, with a deep national consciousness, possessing the qualities and properties of a future competitive specialist. Extracurricular and educational work is a complex system that includes sports, student government, amateur performances, student science. This system includes various structural divisions that provide a comprehensive coverage of student life, including living in hostels.

Students express full and partial satisfaction with the level of accessibility and responsiveness of the university administration - 90% are completely satisfied, 10% are partially satisfied; the availability of academic counseling - 86.7% are fully satisfied, 13.3% are partially satisfied; the availability of health care services - 73.3% are fully satisfied, 10% are partially satisfied; availability of library resources - 86.7% are fully satisfied, 6.7% are partially satisfied; with existing training resources - 90% are completely satisfied, 10% are partially satisfied; the general quality of educational programs - 93.3% are fully satisfied, 3.3% are partially satisfied; the relationship between student and teacher — 90% are completely satisfied, 6.7% are partially satisfied; providing students with a hostel - 73.3% are fully satisfied, 16.7% are partially satisfied.

Strengths / Best Practice

- The transparency of procedures for the formation of the contingent of students from admission to graduation has been ensured.
- Special adaptation and support programs have been developed and are being implemented for newly admitted and foreign students, as well as students from low-income families, orphans.
- Conditions have been organized for students with special educational needs, the possibility

of obtaining high-quality higher and postgraduate education in order to fully realize their professional interests and needs.

- The university makes every effort to promote the employment of graduates.

Recommendations of EEC for EP "6B06102 Business Informatics", "7M06103 Information Business Analytics", "8D06103 Modeling and Optimization of Business Processes":

Recommend the development of procedures for the recognition of learning outcomes received by students through non-formal education.

Conclusions of the EEC on the criteria for EP "6B06102 Business Informatics": strong – 7; satisfactory –6, requires improvement – 1.

Conclusions of the EEC on the criteria for the EP "7M06103 Information Business Analytics", "8D06103 Modeling and Optimization of Business Processes": strong – 11; satisfactory – 2, requires improvement – 1.

6.7. Standard "ATS – Academic Teaching Staff"

Proof part

Analysis of the documents showed that KATU implements personnel policy in accordance with the main priorities of the Development Program of JSC S. Seifullin Kazakh Agrotechnical University for 2016-2020 and the strategy "KATU-2025". The staff of the ICT department is staffed in accordance with the legislation of the Republic of Kazakhstan and the Rules for the competitive replacement of positions of scientific and pedagogical personnel of higher educational institutions, in general, it corresponds to the areas of training bachelors, masters and PhD doctors and meets licensing requirements.

The teaching staff of the ICT Department carries out educational, educational, methodological, research and educational work, as well as control and management of the research work of students. The teaching staff of the department in the 2020-21 academic year includes 18 (of which 15 are full-time) teachers, of whom – 4 candidates of sciences, including those with the academic title of associate professor (HAC) – 2 people, 1 PhD doctor, 10 masters. Three graduates of the "Bolashak" program work at the department: Koksegen A.E., Murzabekova G.E., Seifullina A.D.

Personnel policy is regulated by the normative documents of the Ministry of Education and Science of the Republic of Kazakhstan and the internal documents of the university: RRCRPTS QMS 07.7026-2019 "Regulations on the rules of competitive replacement of positions of the teaching staff of JSC"S. Seifullin Kazakh Agro-Technical University"; RIR QMS 11010.52 – 2018 "Regulations on the internal regulations of JSC "S. Seifullin Kazakh Agrotechnical University"; DP QMS 08-2016 "Personnel Management", etc.

Regulatory documents governing the procedure for recruitment, promotion, functional duties, internal regulations are published on the university website and on the internal portal. In addition, it is possible to contact the rector / vice-rectors personally by phone or e-mail indicated on the university website (https://kazatu.edu.kz/ru/ob-universitete/administraciya/). This testifies to the availability of management of its interest in the development of feedback from the team.

The EEC Commission confirms that all the normative documents and job descriptions of the teaching staff are available at the ICT Department, the teachers are familiar with them (the fact of familiarization is confirmed by a mark in the "Acquaintance Sheet"); they are available for teaching staff and are located in the folder 12114-06 Job descriptions. The distribution of responsibility for business processes within the EP management is clearly outlined in job descriptions. Any incorrect distribution of job duties of personnel and an illegal delimitation of the functions of collegial bodies within the EP is revealed in the process of analyzing the

development plan and further measures are developed to eliminate the identified inconsistencies.

Total number, staff level and average age of teaching staff according to the staffi table

№	Academic years	Total number of ATS on staffing .	Including teachers(%)	Including part-time teachers (%)	Academic degreehold ersrate,%
1	2019-2020	22	16 (72 %)	6 (28 %)	50
2	2020-2021	18	13 (72 %)	5 (28 %)	38,5

EEC notes that the teachers of the ICT Department are constantly improving their qualifications. One of the possible ways to improve qualifications is to obtain additional education at the Institute for Advanced Studies and Distance Learning of KATU (associate professor G.E. Murzabekova, lecturer E. Bateshov, lecturer A. Dzhumagalieva, lecturer Nurpeisova A.A.). The list of advanced training programs for teaching staff of universities is posted on the university website (https://kazatu.edu.kz/assets/i/deps/7_ru.pdf). Every year, university teachers take advanced training courses "Modern pedagogical technologies of universities within the updated content of education" at the Republican Institute for Advanced Studies "Orleu", after which they prepare and defend a portfolio (lecturer Smailova L.K., lecturer TashkenbaevaZh.M.).

The teachers of the department use electronic educational platforms to improve professional competence and acquire hard skills (https://www.coursera.org/, https://intuit.ru/). Associate Professor G.E. Murzabekova received a Coursera certificate (Algorithmic Toolbox, UC San Diego, 08/16/2020), 5 teachers have INTUIT certificates in the course “English Language for Information” - AM Dzhumagalieva, SD Zhumaseitova, KoksegenA.A., Muratova G .K., Mekesh O., Tuzhibay L.K .; in the course “Introduction to cloud computing” - TashkenbaevaZh.M., Seifullina A.O. At the time of visiting EEC, 15 teachers are undergoing distance learning at the National Open University “INTUIT”.

The head of the EP, the head of the department, associate professor G.E. Murzabekova, was trained in educational management programs at the courses “Training of specialists in accordance with the requirements of the international standard ISO 37001: 2016”“Anti-corruption management systems “with the qualification” Anti-corruption management system manager” and “2020: Management of an educational organization for leaders”.

Information about professional development of teaching staff
(number of certificates per academic year)

ATF level	2018	2019	2020
KR	24	34	12
NearAbroad	17	15	8
Farabroad	1	1	
Heads of EP and top managers	1	7	1
Including:			
By specialty	29	39	14
Onpedagogy	2	3	1
In English	12	15	6

In order to improve the professional level, motivate employees and stimulate employees, there is a system of bonuses for teachers and employees for personal contribution and results achieved in labor activity. Bonuses are paid to employees based on the results of their work for the academic year, successful admission campaign, for their contribution to the use of innovative technologies in the process of teaching students, certification, accreditation, scientific results, for anniversaries and official public holidays.

The university has a system of rating assessment of the teaching staff and financial support for proactive teachers: the Regulation on the competition “The best curator of the year”, the Regulation on the competition “The best teacher of the year” are developed and are in effect. 8 teachers of the department are nominees for the competition “The best teacher of KATU” for the last 3 years.

Representatives of the department also participate in professional competitions of the Ministry of Education and Science of the Republic of Kazakhstan: associate professor G.E. Murzabekova is the winner of the “Best University Teacher” competition in 2010,

The university also provides salary allowances for teaching in English; internship or study abroad; performance of administrative functions; obtaining certificates for passing the exam for authorized courses in the ICT field (CISCO, Linux, Microsoft, Oracle, Redhat); according to the results of the rating (REATS QMS 02.2052 - 2020 “Regulations on the establishment of allowances for the teaching staff”).

To improve living conditions, KATU provides teachers in need with the opportunity to settle in the university dormitories (RPREH QMS 07.7010 - 2019 Regulations on the procedure for the residence of employees in the hostels of S. Seifullin KATU JSC). The dormitory accommodates 2 teachers of the department. Service apartments are provided for teachers who make a great contribution to the development of KATU (1 teacher of the ICT Department).

Every five years, teachers of KATU undergo certification to determine the correspondence of the teacher's qualification level to the qualification requirements and job descriptions ofS. Seifullin KATU. The main evaluation criteria for attestation are: the ability of the attested to perform the duties assigned to him, specified in the employee's job descriptions; high-quality and timely execution of orders of the head, dean; performing duties as curators and advisers; active participation in the life of S. Seifullin KATU; realization of scientific potential as a scientist, teacher. In the 2019-2020 academic year. 4 teachers of the department passed certification (BaisalykovaSh.A., Zhumaseitova S.D., Muratova G.K., Dzhumagalieva A.M.), in the 2020-2021 academic year. 2 more teachers will pass (Smailova L.K., Tazhibay L.K.)

Dismissal of a teacher due to the expiration of the contract is possible only in three cases: in case of failure to submit an application for participation in the competition, in case of not passing the competitive selection at the Academic Council of the University, as well as on their own. Dismissal of a teacher on the initiative of the employer is allowed if the employee does not match the position held, insufficient qualifications. The teacher may be fired due to the reduction in the number of employees, due to lack of hours

Checking the competence of the teaching staff is carried out through the established methods and forms of a comprehensive assessment of the activities of the teaching staff at the end of the academic year, in accordance with the RMCSATAQT 07.7004-2019 “Regulation on the mechanism and criteria for systematic assessment of teachers, assessment of the quality of teaching.” A comprehensive assessment of the professional activity of the teaching staff covers educational, educational, methodological, scientific and educational work and takes into account the results of the questionnaire “Teacher through the eyes of students.” Based on the results of a comprehensive assessment, a ATS rating map is drawn up.

To improve the quality of teaching, to ensure a close relationship with production, the university invites practitioners from the relevant industries as teachers. At the same time, professors from other leading universities are invited to the educational process (in 2019-20 academic year -1 ENU teacher, in 2020-21 academic year -1 ENU teacher). Part-time workers,

representatives of IT companies and organizations are involved in the educational process (in 2019-20 academic year -1 people, 2020-21 academic year-1 person).

A social survey is conducted annually to meet the needs of teaching staff and staff, and based on the analysis of the results of the survey, appropriate decisions are made.

Relevant in the educational and methodological activities of the teaching staff of the university is the development of interactive teaching methods using multimedia equipment, innovative technologies in teaching. The latter include both the technologies of project training (discipline “Project work” EP 6B06102 Business Informatics), and the introduction of computer technologies into the educational process in the profile disciplines of the EP.

The forms of conducting lectures are being improved with the use of a complex of modern teaching aids, which makes it possible to increase the intensity of the presentation of the material, enhance the activity of students.

The teaching staff of the Department of ICT is actively conducting research. Funding for the research work of the department was carried out at the expense of budget funds, within the framework of the program 217 "Development of Science" (2015-2017) – 1 project, as well as through international research projects funded by the US National Science Foundation (2017-2019) – 1 project, and the European Erasmus + program (2016-2019) –2 projects. Head of EP Associate Professor G.E. Murzabekova was the head of the grant project of the State Foundation of the Ministry of Education and Science of the Republic of Kazakhstan “Problems of control and identification for differential equations with memory on graphs”, and the lecturer Tazhibay L.K. – the performer. In the Erasmus + project “№574157-EPP-1-2016-1-IE-EPPKA2-CBHE-JP Development of trans-regional information literacy for lifelong learning and the DIREKT knowledge economy”, lecturer G. Murzabekova and Koxsegen A.E. were executors (2017-2019). Associate Professor G.E. Murzabekova was the executor of the project “1716971-Control, observation and identification of differential equation networks” of the US National Science Foundation (NSF) (2017-2019).

Currently, the staff of the department are involved in projects: Erasmus + “№ 610383-EPP-1-2019-1-DE-EPPKA2-CBHE-JP Improving postgraduate education in the field of sustainable agriculture and agricultural systems of the future SAGRIS” (2020-2023) (Murzabekova G.E.) and “Developing Services for Individuals with Disabilities”–“DECIDE” (2019-2022) (Koksegen A.E., TashkenbaevaZh.M.).

In the 2020-21 academic year, the teachers of the department carry out projects on 3 initiative topics: “A didactic system for preparing students for self-educational activities based on a competence-based approach using information technologies” (№ 0115RK03068, head Arynkhanova E.K.), “Questions of the implementation of interdisciplinary integration in the educational process of the university" (№ 0115RK03069, supervisor K. Shurakhanova),“Development of an automated dictionary for students of agricultural specialties” (№ 0117RKI0111, supervisor A.M. Dzhumagalieva).

The university has a system of material incentives for the publication of scientific articles and abstracts in domestic and foreign scientific journals included in the Web of Science (Clarivate Analytics) and Scopus (Elsevier) databases, and having a citation index of at least 0.1. (QMS REE 03.3008 - 2019 On the encouragement of employees of JSC “S. Seifullin Kazakh Agrotechnical University” for the results achieved in scientific research)

The department is making significant efforts to find and attract additional funds to support scientific work. So, recently, 4 projects have been prepared for participation in the competition for grant funding, 2 projects under the Newton – Al-Farabi program, which are administrated by the Science Fund JSC and the British Council, Smart Astana, which is administered by the company Astana Innovations. The project “Creation of an on-line center for retraining and advanced training of teachers of informatics in English” has been prepared.

The teachers of the department are constantly engaged in scientific work, take part in scientific and practical symposia, conferences; conduct the work of scientific circles; carry out scientific supervision of student and postgraduate work; training of scientific and pedagogical

personnel in the framework of magistracy and doctoral studies. Two teachers of the department have a Hirsch index ≥2: Myrzabekova G.E. h-index = 3, TashkenbaevaZh.M. h-index = 2.

Publications of the teaching staff of the ICT department

Years	Web of Science	Scopus	CCES	RSCI	In conference materials	Total
2018	2	1	10	10	11	34
2019	2	1	12	10	12	37
2020	2	1	9	13	12	37
Total	6	3	31	33	35	108

Participation in conferences

Years	Conferences in farther foreign countries	Conferences in near foreign countries	International conferences held in Kazakhstan	Republican conferences	Total
2018	1	5	9	2	17
2019	1	7	8	2	18
2020		3	4		7
Total	2	15	21	5	43

Confirmation of the level of competence of teachers is the effectiveness and quality of teaching, assessed at the university through open training sessions, mutual visits to classes, as well as a questionnaire “The teacher through the eyes of a student.” The results of these activities serve as the basis for the extension of labor contracts of the teaching staff, promotion.

Teachers and students of the ICT Department actively participate in various competitions, hackathons, make-ups. implemented the TOM: Kazakhstan project. The KazATU team took part in the “TOM: Kazakhstan” project in Pavlodar on April 6 - 9, 2018, organized by the ALE “Association of Friends of Tel Aviv University in the Republic of Kazakhstan”. The team included teachers of the department Koksegen .E., TashkenbaevaZh.M.. A prototype of the “Modernized tricycle for people with cerebral palsy” was developed. The members of the KazATU team received certificates, as well as the main prize of the project - training in business partnership.

In order to harmonize the content of EP of leading Kazakhstani and foreign universities and conduct joint research, KATU provides for academic mobility. The University has signed 180 international memorandums of cooperation with the world's leading universities. However, the teaching staff of the department did not take part in academic mobility during the entire existence of the department. Currently, the leadership of the EP is negotiating with the universities of France: Agreenium and AgroParisTech within the framework of the incoming mobility of teaching staff and outgoing mobility of students and teaching staff.

The university has created conditions to support young teachers: the Council of Young Scientists, the School of Young Curators are functioning, an opportunity to improve their professional level by working with scientific and educational literature in the university libraries is provided, free access to leading electronic libraries is provided.

The department provides opportunities for career growth and professional development of teachers involved in the implementation of the EP. The formation of scientific and pedagogical personnel is carried out through the preparation of masters of technical sciences and

doctors of philosophy in the specialty. 3 teachers of the department (NurmukhanovaZh.K., Nurpeisova A.A., Koikelova D.K.) were sent to the target doctoral studies in the group of specialties 8D061 ICT, the expected term of defense in 2020-21 academic year.

Teachers of the ICT Department take an active part in the public life of KATU and the city of Nur-Sultan. The effectiveness of the social activities of teachers is evidenced by letters of thanks, diplomas, prizes, confirming the well-deserved reputation of the teaching staff of the department.

Analytical part

The commission notes that the personnel policy of the university is a complex of works arising from the mission and strategy in order to form and effectively use motivated and highly productive personnel capable of adequately responding to the impact of the external and internal environment. The order in force at the university ensures the transparency of the personnel policy.

EEC notes that the standards for the annual workload of the teaching staff are approved by the Academic Council of the university: 1 rate is equal to 730 hours or 52 credits. When planning the volume of educational work, it is assumed that one credit is equal to 14 academic hours, which is a violation of the Rules for organizing the educational process on credit technology of education.

Improving the qualifications of the teaching staff of the ICT department and their retraining is associated with an increase in the requirements imposed on them as a result of changes in the EP, with the deepening of previously acquired or the acquisition of new professional knowledge, skills and abilities, as well as for expanding professional opportunities by obtaining additional qualifications in connection with the changes labor market structure. The approved plan for professional development was not provided to the experts.

EEC notes that the teaching staff does not fully comply with the qualification requirements for licensing educational activities. Not all teachers of the department have a basic education corresponding to the profile of the implemented EP: 5 masters have an academic degree in natural science, 1 - in jurisprudence (lecturer, candidate of pedagogical sciences, Bateshov E.A.). Partially, the qualifications of teachers in the field of the taught disciplines of the EP is confirmed by publications, certificates of advanced training, participation in the implementation of grant and initiative projects. For example, lecturer Dagmirzaev A.A., a mechanical engineer by education, Ph.D., has 9 publications on IT. Lecturer Muratova G.K., a mechanic by education, Ph.D., has 4 certificates in the field of IT.

All teachers serving EP in major subjects have scientific and pedagogical experience of more than five years.

Analysis of the state of human resources by years shows the instability of the qualitative composition of the teaching staff (percentage of graduated teachers), since the degree of staffing of the ICT department fell in 2020-21 academic year by 11.5% compared to the previous one. Teachers of retirement age with academic degrees dropped out of the department and this influenced the degree of degree.

Participation in interviewing teaching staff and students determined the quality of training.

Students express full and partial satisfaction with the quality of the educational program as a whole - 83.3% are fully satisfied, 16.7% are partially satisfied; quick response to feedback from teachers on the educational process - 86.7% are fully satisfied, 13.3% are partially satisfied; Requirements of the teaching staff to the student - 86.7% are fully satisfied, 13.3% are partially satisfied; objectivity and fairness of teachers - 86.7% are completely satisfied, 13.3% are partially satisfied.

The questioning of the teaching staff showed that there are certain problems that the university administration needs to pay attention to. So, for example, 24.1% of the interviewed

teachers indicate that the content of the EP only partially corresponds to their scientific and professional interests and needs. The same percentage indicates a partial match of the opportunities provided by the university for professional development. More than half of the respondents have doubts about the possibility of career growth in the university: 51.7% indicated partial compliance. Partial compliance in meeting the needs of the teaching staff for the organization of medical care and disease prevention at the university is recognized by 62.1% of the teaching staff. 51.7% of the teaching staff believe that the level of conditions created that take into account the needs of various groups of students only partially meets the needs of students. 51.7% indicate partial satisfaction with the adequacy of the recognition by the university leadership of the potential and abilities of teachers. 69% of teachers are partially satisfied with the level of stimulation and involvement of young specialists in the educational process. At the same time, the teaching staff highly appreciates the work on improving the skills of teaching staff: 79.3% are completely satisfied, partially -20.7%.

The work on academic mobility of the teaching staff is recognized as completely satisfactory only by 20.7% of the teaching staff, partially satisfactory -75.9%.

Strengths / BestPractice

- Objective and transparent personnel policy, ensuring professional growth and development of personnel.
- Providing the leadership of the university with targeted actions to improve the qualifications of young teachers.
- The involvement of the teaching staff in the life of society.

Recommendations of EEC for EP "6B06102 Business Informatics", "7M06103 Information Business Analytics", "8D06103 Modeling and Optimization of Business Processes":

- Take urgent measures to increase the degree of staffing of the department.
- Carry out work to improve qualifications according to a pre-developed plan for advanced training of teaching staff, taking into account the specifics of the EP.
- To intensify work on the development of academic mobility of teaching staff and attracting the best foreign and domestic scientists to the implementation of the educational process.

EEC conclusions on the criteria for EP "6B06102 Business Informatics", "7M06103 Information Business Analytics", "8D06103 Modeling and Optimization of Business Processes": strong – 7; satisfactory –2.

6.11. Standard "Educational resources and student support system

Proof part

During the audit, EEC made sure that the material and technical base was sufficient to support the educational process and implement the mission, goals and objectives of the university. The university is taking measures aimed at improving resource provision. The learning environment is presented, including material and technical equipment, corresponding to the plans for the implementation of educational programs. The material, technical and social base under the operational management of KATU is located in Nur-Sultan, Shchuchinsk, Barmashino settlement. The total area of buildings and structures of the university is 83.235.6 m^2, incl. educational - 50517.6 , residential - 27822.2 m^2, corresponding to the requirements of sanitary norms and the requirements of state general educational standards of the specialties being implemented.

The educational process of students in EP 6B06102 “Business Informatics”, EP 7M06101 "Information systems and IT solutions by industry”, 8D06103 –“Modeling and optimization of business processes” is organized in specialized classrooms: 2501, 2504, 2520, IT training center, artificial intelligence laboratories and BigData. All auditoriums are certified, provided with fire extinguishing means. In computer classes and laboratories, the state of communications and equipment is regularly monitored. All laboratory premises have natural and artificial lighting.

The university has a sufficient educational base for conducting classes and providing leisure for students in physical education. The total area of sports facilities is 8202 m^2: 3 sports halls - weightlifting, a game hall and a wrestling and boxing hall, currently the construction of the “Orlyonok” stadium is underway.

The area of the hostels is 28,022.5 m^2 and they are designed for 2,180 beds. Students are accommodated in four dormitories, in which 1605 students actually live, teachers and university staff live in two dormitories № 1-a and № 4, students of the IPK and university staff live in hostel № 2-a. The university has a hotel-type IPK dormitory for 100 places. The hostel is equipped with the necessary furniture, equipment, inventory and staffed with trained staff to provide appropriate service for residents.

Each hostel has buffets and catering facilities open on weekdays. On the territory of the university there are 8 public catering points with a total area of 848.7 m2, for 320 seats. All food outlets are equipped with the latest special equipment and modern furniture. The quality of food is monitored by the relevant services and public student organizations.

The commission especially noted the conditions created for students for the full satisfaction of all the necessary needs of residents: the presence of computer classes, self-study rooms, laundry, gym, etc. For students living in hostels, night reading rooms, the Internet, Wi-Fi resources are available, sports and cultural events are held, and the duty of the teaching staff is provided.

In the building of the hostel number 5, there is a medical center for students and university staff. The medical center has a therapy room, a dentistry room and a massage room. The staff of the first-aid post carries out preventive work among students, preventive measures against various diseases, checks the sanitary condition of hostels, buildings, compliance with all necessary standards at the university's food outlets.

For social events, the university has a conference room in the main building for 300 seats, equipped with modern sound equipment and simultaneous translation. The main cultural events are held in the assembly hall for 220 seats in the building of the agronomic faculty.

The IQA hostel has a conference hall for 60 seats, equipped with a conference system and modern computer equipment.

A key element of the university infrastructure is the University Library and Information Center. The center serves readers in 6 educational buildings, in 14 reading rooms with 900 seats, halls of periodicals, an electronic room, spacious foyers with modern furniture and special equipment for storing books, with free access to the Internet, WI-FI and other necessary information.

All reading rooms are equipped with library equipment, new furniture, scanners and computers, connected to the Internet. There is a mini-printing house located in the building of the military department. The total area of the library is 3,721 sq.m.

The book fund is more than 900 thousand copies and includes educational, scientific, fiction, periodicals, documents on electronic media, works of the university faculty. Every month, the library fund receives 500 titles of documents, a bulletin of new acquisitions is compiled, book exhibitions are organized.

The Information and Library Center provides teachers and students with the right to use the book fund and electronic resources free of charge in all educational buildings; carries out electronic delivery of ordered sources. In order to support students, teaching staff and employees in access to modern databases under a national license, open access to the world resources of scientific publications of foreign companies Clarivate Analytics in the Web of Science platform,

(http://webofknowledge.com/), SpringerLink (www. link.springer.com), Scopus (https://www.scopus.com), ScienceDirect (https://www.sciencedirect.com) by Elsevier (http://www.elsevier.com).

The university has access to electronic full-text databases: POLPED, EBS “University Library Online”, EBS “Lan”, EBS “IPR BOOKS”. The latest ESB supports adaptive technologies: a version for the visually impaired, an exclusive adaptive reader, a program for non-visual access to information, a collection of audio publications. Provided remote access to full-text domestic resources of electronic libraries RIEL (www.rmeb.kz), KazNEB (www.kazneb.kz).

The university practices the publication of electronic textbooks, which are posted on the site and are freely available http://portal.kazatu.kz/e-books/index.php?id=9&lang=ru. To observe copyright, the authors are issued a certificate for this publication.

The website of the electronic scientific library (https://library.kazatu.kz/) contains the following resources: electronic catalog (http://ecatalog.kazatu.kz/jirbis2/izzdeu.php); new arrivals (http://ecatalog.kazatu.kz/jirbis2/izzdeu.php); electronic library of teaching staff; electronic resources; KATU Science Bulletin; publications about the university; subject librarian; periodicals; project New humanitarian knowledge, 100 new textbooks in the Kazakh language.

The library fund is constantly replenished with educational and methodological, scientific literature, developed by the teaching staff of the university.

Training and teaching AIDS of the teaching staff of the Department of ICT, published in the 2019-2020 academic year

№	Title	Authors	Type of edition
1	Algorithms and programming in high-level languages (C ++)	Zhumaseitova S.D.	Textbook, kaz language of edition
2	Practicum for self-study students on the discipline «Information and communication technologies»	Koksegen A.E.	Manual, English language of publication .
3	Algorithmization and programming in high-level languages	Dagmirzaev O.A.	Textbook, ruseditionlanguage .
4	Manual for students of technical direction on laboratory and information work on the subject of information and communication technologies	Dzhumagalieva A.M.	Manual, kaz language of edition
5	ProgramminginPython	Zhumaseitova S.D.	Textbook, kaz language of edition
6	Fundamentalsof C ++ Programming	Kazeshov A., Baegizova A.S.	Textbook, ruseditionlanguage .
8	Information programming in the food industry	Koksegen A.E.	Textbook, English language of edition.

The reliability of graduation theses, masters theses, research results presented by the teaching staff in monographs, scientific articles and reports is assessed by checking them for plagiarism using the “Antiplagiat” system. Research reports and monographs are subject to external verification through JSC “NCSSTE”.

Computer classes of the ICT Department are equipped with modern PCs, information on the technical characteristics of which is given in Appendix 43 of the self-report. Licensed software is installed in the classrooms and laboratories of the ICT Department: MS Office, CorelDraw, Adobe Photoshop, Autocad. At the same time, experts note the use of free software: Python, Anaconda and free 30-day versions of AnyLogic software.

The support of the EP with information technologies is carried out by the Informatization Council. Council for Informatization of S. SeifullinKazakh Agrotechnical University is a permanent coordination and advisory and scientific advisory body of the Academic Council of S. Seifullin Kazakh Agro Technical University in the field of solving problems on the use and development of information technologies. The activities of the Council for Informatization are regulated by the RCI QMS 10010. 12030A Regulations on the Council for Informatization of KATU.

Analytical part

Experts note that the university has a mechanism for assessing the development of material and technical resources and information support through scheduled reports at meetings, the university has a sufficient number of classrooms equipped with modern technical teaching aids, including educational and scientific laboratories. The material and technical base of the university meets the sanitary and technical requirements.

Wi-fi access to the Internet in the university dormitories is limited, if the limit is exceeded, an additional fee is charged.

Strengths / Best Practice

- Accessibility for students of educational and methodological materials (syllables, textbooks and teaching materials).

- Availability of specialized laboratories with certified software.

Recommendations of EEC for EP “6B06102 Business Informatics”, “7M06103 Information Business Analytics”, “8D06103 Modeling and Optimization of Business Processes”:

- To look for the possibility of providing unlimited access to the Internet in the university dormitories

Conclusions of the EEC on the criteria for the EP “6B06102 Business Informatics”, “7M06103 Information Business Analytics”, “8D06103 Modeling and Optimization of Business Processes”: strong – 6; satisfactory – 1, needs improvement – 1.

6.9. Standard “Public awareness”

Proof part

The experts studied the materials presented in the self-report, the university portal and publications presented on it, publications of accounts in social networks and media. The University, the Faculty of CSVE and the Department of ICT use a variety of ways to disseminate information, including information networks. Information about the university is located on the KATU website https://kazatu.kz. Information about the faculty of CSVE is posted: on the Facebook social network (https://www.facebook.com/su.ksipo.live/) - more than 56 subscribers, Vkontakte (https://vk.com/ksipo) more than 579 subscribers , Instagram (@ su.ksipo.live) - over 364.

The university, in addition to the university website, has the following sources and services for the publication and coverage of information: a portal for employees and students (www.kazatu.edu.kz, http://portal.kazatu.kz/); Student service center; advisor service and registrar's office; advisory services on the basis of departments, dean's offices and other

departments of the university in terms of their powers; official pages on social networks; information stands on the territory of the university.

Participants in the process of informing the public are the administration, the selection committee, the educational and methodological department, dean's offices of faculties, departments, the Department of educational work, and other university services. Information communicated to the public concerns the social role of the university, the achievements and development plans of the university, the main implemented EP, innovative achievements, the activities of student support services, participation in the implementation of international programs and projects, etc.

Information about the history of the ICT department, the composition of the teaching staff, research and innovation activities of the department, international cooperation, student life and information on subject Olympiads, as well as the EP themselves, plans for the development of EP, CED is posted on the page of the department (https://kazatu.edu .kz / ru / obrazovanie / fakulteti / ksipo / kafedra-vichislitelnaya-tehnika-i-programmnoe-obespechenie /). The department has an information stand informing about the specifics of the specialty, the results and achievements of the EP.

Information about the employment opportunities of EP graduates is posted on the website http://kazatu.kz/ru/obrazovanie/centr-kareri-i-biznesa/trudoustroystvo/ in the section “Employment of graduates of S. Seifullin KATU”. Also in this section there is information about the employment of graduates of S. Seifullin KATU for the reporting period, about the schedule of the fair "Graduate", the needs of the regions in the specialists of S.Seifullin KATU, the needs of the regions in specialists according to the data of the Atameken NCE.

At the university, a special structural unit is engaged in employment issues - the Career and Business Center (8-7172-31-73-43).

The press center of the university systematically informs the public about cooperation and interaction with external partners within the EP, including with research institutes and centers, consulting organizations, employers, social partners, public organizations and partner universities. Press center page on the university website: https://kazatu.edu.kz/ru/ob-universitete/press-centr/

Articles about the life of students, materials of the results of scientific research of teachers of the department are published in the university newspaper “My University”. Various media resources are used as effective tools for informing the public to create an image of an open educational institution, press conferences, briefings are held, business contacts with the editors of newspapers, magazines, radio, and television are intensified.

In 2015-2018, more than 50 materials on the activities of the university and on the EP of the department were published in the republican and regional media, on the website www.kazatu.kz. Information posted through the media and on the website explains the national development programs of the country and the system of higher and postgraduate education. Informing the public also includes information on the implementation by the university of the provisions of the SPED, taking into account the profile of the educational organization.

Materials about all important university events are published in republican and regional newspapers and magazines. In 2019, more than 60 publications were published, in 2020 – 61 publications.

As part of the implementation of strategic objectives, the university uses a variety of ways to disseminate information, for example, open days, job fairs at the university, meetings of alumni, briefings conducted by the management, round tables with heads of enterprises and organizations, exhibitions of achievements, demonstration of new technologies and equipment introduced , vocational guidance meetings with graduates of urban and rural schools.

Information about the funds allocated for the implementation of the university EP as a whole can be found on the website www.kazatu.kz in the section “Financial reporting” (https://kazatu.edu.kz/ru/ob-universitete/finansovaya-otchetnost/) as a separate financial statements and consolidated financial statements by year.

KATU takes part in world and Kazakhstan ratings, foreign agencies QS World University Rankings, Times Higher Education World University Rankings, Webometrics Ranking of World Universities and in Kazakhstan ratings of the IAAR, (IAOAQE). Information about the ratings is available on the university website in the “About us” section and the subsection “University achievements in the rating” (https://kazatu.edu.kz/ru/ob-universitete/dostijeniya-universiteta-v-reytingah/).

In 2019, the university took part in the ranking of universities of the Republic of Kazakhstan, conducted by the Atameken NCE (www.atameken.kz). KATU in the ranking took 11th place out of 28. For IT specialties of the Faculty of CSVE, EP "Information Systems" took 23rd place out of 57, EP CTSW - 9th place out of 45.

Analytical part

EEC confirms the timely placement of information about the activities of the university, cooperation and interaction with partners of the university, but at the same time notes the presence of incomplete information about the teaching staff; as well as the lack of financial reporting on the web resource in the context of implemented EPs of the ICT Department.

Strengths / Best Practice

- The active position of the university in explaining the national development programs of the country and the system of higher and postgraduate education,
- Active advertising and image work in the media.

Recommendations of EEC for EP “6B06102 Business Informatics”, “7M06103 Information Business Analytics”, “8D06103 Modeling and Optimization of Business Processes”:

Regularly publish on your own web resource financial statements in the context of EP.

EEC conclusions on the criteria for EP “6B06102 Business Informatics”, “7M06103 Information Business Analytics”, “8D06103 Modeling and Optimization of Business Processes’: strong – 7; satisfactory – 3.

6.10. Standard “Standards in the context of different specialties”

Proof part

EP covers the main topical issues and problems that are of a methodological and practical nature, they are linked to the practice of organizing activities in the IT field. The Department of ICT in the implementation of EP carries out its activities in accordance with the regulatory legal acts of the Ministry of Education and Science of the Republic of Kazakhstan, the Ministry of Agriculture of the Republic of Kazakhstan, etc.

The EP pays great attention to the formation of knowledge in the psychology of leadership, the study of the processes of formation and development of a social group in an organization, psychology of entrepreneurship. So, for example, EP 6B06102 “Business Informatics” contains a module of socio-political disciplines (sociology, political science, cultural studies, psychology), during the study of which the student receives basic knowledge about relationships in a team, in society as a whole. In addition, individual issues of relationships in the team are studied in the disciplines “Leadership and team management”, “Enterprise economics”. Taking into account the scope of future work, students receive knowledge on the psychological foundations of information security while studying the discipline “Information Security”. In EP 7M06101 “Information systems and IT solutions by industry”, issues of psychology and relationships in the team are considered in the study of the discipline “Psychology of Management”.

In order to get acquainted with the professional environment and topical issues in the IT field, EP 6B06102 “Business Informatics” provides disciplines aimed at gaining practical experience. Some of the disciplines are related to programming and form the skills of writing programs in high-level languages (in Python, in Java, in C ++) and skills in developing Internet applications.

Disciplines of CED EP 6V06102: “System analysis and decision making”, “Design of software systems”, “Information processes, systems and networks” form knowledge about information resources, about the processes of development of geographic information systems; how to support the development of information systems; effective use of information systems; on ensuring the protection of information resources. For an initial acquaintance with the future profession, excursions for freshmen are organized to the GIS center, the Artificial Intelligence laboratory, the IT Training Center, the BigData laboratory of KATU, curatorial hours and meetings with representatives of IT companies and organizations are organized.

Knowledge of technology, methods and tools for improving business processes, skills in research and analysis of business systems, skills in modern instrumental systems for modeling and analysis of organizational processes are formed by the disciplines of CED EP 7M06101 “Information systems and IT solutions by industry”,“Management systems business efficiency”, “Modeling and management of business processes”, “Methodology and tools for modeling business processes” form.

Disciplines “Modern theory of business processes in IT”, “Research methods of analysis and synthesis of business processes”, “Optimization methods of business processes” CED EP 8 D061 “Modeling and optimization of business processes” provide practical knowledge in the field of specific methods of business management -processes; skills in using various tools for analyzing business processes.

The department conducts joint seminars with representatives of IT companies in order to solve practical problems that are relevant for enterprises in the IT industry (ALE Kazakhstan Association of IT Company, CSI Factor LLP).

EP 6B06102 “Business Informatics” includes disciplines that teach teaching methods with high involvement and motivation of trainers (Game Theory, Business Process Analysis, System Analysis and Decision Making, Data Management). As a result of training, students will study methods of forming a set of possible options for solving systemic problems, forecasting methods. Students will gain skills in making optimal economic decisions, using the appropriate mathematical apparatus and tools for constructing game models. In EP 6V06102, the discipline “Project activity” is separately highlighted, which allows you to integrate the acquired knowledge in the implementation of real cases during professional practice.

As part of the implementation of the EP of the Department of ICT, representatives of production are involved in teaching activities. For example, lecturer O.O. Mukanov, Head of the Information Security Department, Nursultan Nazarbayev International Airport JSC. In the future, it is planned to invite representatives of other IT companies to give lectures and conduct individual classes on the basis of companies.

Work is being carried out on the invitation of leading teachers from other universities, the exchange of experience with which allows us to solve professional problems in the preparation of competitive specialists. So, for lectures on the disciplines EP 7M06101 "Information systems and IT solutions by industry" and EP 7M06101 "Information systems and IT solutions by industry" invited Ph.D., associate professor of ENU Bayegizova A.S.

Evaluation of the effectiveness of the specificity of the EP is carried out in terms of the presence of components that form the personal development of students, their creative abilities and special competencies. In order to familiarize and use innovative technologies, a programming and robotics circle was organized for first-year students of the specialty 6B06102 – “Business Informatics”, the program of which includes the most trendy and popular issues of developing web applications, Telegram chat bots, mobile applications and robotics.

The development of interactive teaching methods using multimedia equipment is relevant in the teaching and methodological activities of the teaching staff on EP. Presentations of training courses are practiced using interactive whiteboards, multimedia projectors, etc. The introduction of new training systems and the transition to distance learning due to the deterioration of the epidemiological situation in the country has led to a change in methodological approaches to the organization of classroom and extracurricular activities. The forms of lectures are being improved with the use of a complex of modern teaching aids, the use of online conference services, which makes it possible to increase the intensity of the presentation of the material, to enhance the activity of students.

The teachers of the department have experience in teaching fundamental natural science disciplines (Dzhumagalieva A.I., physicist-computer scientist; Zhumaseitova S.D., mathematician-programmer; KulmuratovaA.Sh., mathematician-computer scientist). In the course of their taught disciplines, they trace a clear relationship with the content of fundamental natural sciences, such as mathematics, chemistry, physics.

The EP management pays great attention to the practical training of teaching staff in the field of specialization. In order to improve the pedagogical qualifications of the teaching staff, they are involved in the implementation of the department's projects: all teachers are executors of the project “Issues of the implementation of interdisciplinary integration in the educational process of the university."” The executors of the project “Didactic system of preparing students for self-educational activity based on a competence-based approach using information technologies” are teachers Koksegen A.E., Smailova L.K., Koikelova D.K.

In order to develop professional IT competencies, the following teachers were involved in the implementation of the project “Development of an automated dictionary for students of agricultural specialties”: Dzhumagalieva A.M., Koksegen A.E., Zhumaseitova S.D., MuratovaG.K. Almost all teachers of the department take specialized courses on educational online platforms INTUIT, Coursera.

The teaching staff of the department carry out reading of the ICT discipline for all students of the university and individual disciplines of the department in English, in this regard, in the 2019-20 academic year, 15 teachers of the department took English courses and received certificates. Lecturer, master ZhumaseitovaSamalDuisenbaevna took advanced training courses for teachers of pedagogical specialties of universities of the Republic of Kazakhstan “Enhancing Learning and Teaching in Higher Education (ELTHE)” at the University of Newcastle, UK, with a certificate. Teachers of the department Koksegen A.E. and Seyfullina A.O. completed language training and internship at the University of Reading, Great Britain, majoring in Pedagogical Diagnostics, Assessment and Quality Management of Education under the international scholarship of the President of the Republic of Kazakhstan “Bolashak”.

From the analysis of the criteria for assessing the standard “Teaching staff” for the EP, it was revealed that the teaching staff of the specialty is constantly working to improve the educational and methodological support of the educational process in basic and major disciplines.

For successful employment of EP graduates, the EP management plans to provide conditions for successful professional practice at IT enterprises: “Kazakhtelecom” JSC, “Kazdream Technologies” LLP, G1 “SoftwareKazakhstan” LLP, “OPEN SYSTEMS DEVELOPMENT" LLP, "QLT" LLP, JSC "Kazakhstan GIS Center", LLP "ArtaSoftware", Agrofirm“Rodina”, “Bayserke-Agro”, JSC NC “Kazakhstan GharyshSapary”.

In addition, the employment of EP graduates is also provided during the annual job fairs held directly by S.Seifullin KATU, where the percentage of employment is over 75%.

Analytical part

EEC confirms the timely placement of information on the activities of the university, cooperation and interaction with university partners, but at the same time notes the lack of

information on the financial resources allocated by the university for the implementation of the EP of the ICT Department on the university website, the absence of bilateral agreements with the bases of professional practices for the implemented EP.

Strengths / Best Practice

- the active position of the university in explaining the national development programs of the country and the system of higher and postgraduate education**;**

- active advertising and image work in the media.

Recommendations of EEC for EP '6B06102 Business Informatics", '7M06103 Information Business Analytics", "8D06103 Modeling and Optimization of Business Processes":

These are absent

Conclusions of the EEC on the criteria for EP '6B06102 Business Informatics", "7M06103 Information Business Analytics", "8D06103 Modeling and Optimization of Business Processes': strong – 4; satisfactory – 1.

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

“Educational program management" standard:

- The quality assurance policy is implemented through the processes and standards of internal quality assurance, which involve the participation of all departments of the university. The“Academic Policy”hasbeendevelopedfor students.

- EP of all levels of training are developed in accordance with the National Qualifications Framework, professional standards and agreed with the Dublin descriptors and the European Qualifications Framework.

- The university develops a culture of quality both at the institutional level and at the EP level, monitoring of the development, implementation and evaluation of the EP is carried out in accordance with the developed QMS procedures.

- The university demonstrates a clear distribution of those responsible for business processes within the EP, an unambiguous distribution of job duties of personnel, delineation of the functions of collegial bodies

- The EP management ensures the transparency of the EP development, the timing of the start of implementation, and the EP availability to all interested parties on the university website.

- The presence of interested parties in the collegial bodies of the university and their participation in the development of the EP was observed

- EP management is open and accessible to students and teaching staff, which was established during interviews with them.

“Information Management and Reporting” Standard:

- Functioning of the system for collecting, analyzing and managing information based on the use of modern information and communication technologies and software.

- Availability of a communication mechanism with students, employees and other stakeholders, including the availability of conflict resolution mechanisms.

- ensuring the protection of information, identifying persons responsible for the accuracy and timeliness of information analysis and data provision.

- Information and library resources used to organize the learning process are sufficient and meet the requirements of each implemented educational program of the ICT Department.

- Availability of personal data processing procedures and compliance with the privacy policy.

Standard “Development and approval of educational programs”:

- The procedures for the development of EP and their approval at the institutional level have been determined and documented.

- Working groups have been formed to develop EP, which include teachers, employers, external experts are involved.

- Compliance of the developed EP with the established goals, including the expected results.

- The ability to prepare students for professional certification through the organization of professional practices in courses for IT vendors.

- The content of academic disciplines and learning outcomes correspond to the level of education (bachelor's, master's, doctoral studies).

Standard “Continuous monitoring and periodic evaluation of educational programs”:

- Regular audit of the workload and progress of students.

- The effectiveness of student assessment procedures.

- The presence of an educational environment and support services, and their compliance with the objectives of the EP.

- Bringing to the attention of all interested parties information about changes in the EP.

Standard “Student-centered learning, teaching and assessment of progress”:

- use of credits (ECTS) and modular learning by KATU provide students with a choice of what to study.

- KATU adheres to the policy of defining, using and disclosing learning outcomes in syllabuses of disciplines, which allows at an early stage of EP design to focus on the needs of students and strengthen the teaching mission of the university.

- Students are assessed according to the criteria, rules and procedures published in the syllabuses and consistently applied, and have the opportunity to appeal.

- KATU creates conditions for the formation of an active role of students in the educational process through the structures of the YAC, the Faculty of Arts and Creativity, scientific circles, debate clubs, etc.

Standard "Students":

- The transparency of procedures for the formation of the contingent of students from admission to graduation has been ensured.

- Special adaptation and support programs have been developed and are being implemented for newly admitted and foreign students, as well as students from low-income families, orphans.

- Conditions have been organized for students with special educational needs, the possibility of obtaining high-quality higher and postgraduate education in order to fully realize their professional interests and needs.

- The university makes every effort to promote the employment of graduates.

Standard "Teaching staff":

Objective and transparent personnel policy ensuring professional growth and development of personnel.

-Providing the leadership of the university with targeted actions to improve the qualifications of young teachers.

- The involvement of the teaching staff in the life of society.

Standard "Educational resources and student support systems":

- Accessibility for students of educational and methodological materials (syllables, textbooks and teaching materials).

- Availability of specialized laboratories with certified software.

"Public Awareness" Standard:

The active position of the university in explaining the national development programs of the country and the system of higher and postgraduate education,

- Active advertising and image work in the media.

Standard "Standards in the context of individual specialties":

(VIII) OVERVIEW OF QUALITY IMPROVEMENT RECOMMENDATIONS

Standard "Management of the educational program"

- When developing an EP in terms of describing learning outcomes, it is necessary to focus on the requirements of the PS NCE Atameken.

- Conduct an annual analysis of the CED EP and involve employers to expand it.

- Update the learning outcomes on the basis of regular revision of EP, EP development plan and monitoring of their implementation.

Information Management and Reporting Standard

Develop quantitative indicators for assessing ongoing activities in the framework of reporting on the effectiveness of EP implementation

Standard "Development and approval of educational programs"

- To improve on an ongoing basis the model of graduates at all levels of the EP of the Department of ICT, taking into account the requirements of the PS NCE Atameken in the IT industry.

- Conclude bilateral agreements with practice bases before the start of the academic year.

Standard "Continuous monitoring and periodic evaluation of educational programs"

- Conduct constant monitoring of EP for compliance with the regulatory requirements of the Ministry of Education and Science of the Republic of Kazakhstan, the needs of employers, the latest scientific achievements in specific disciplines and the social demand of society.

- Make adjustments to the CED EP 6B06102 –"Business Informatics", CED EP 7M06103 –"Information Business Analytics" due to the incorrect indication of the prerequisites and post-requisites of disciplines, the list of potential professions according to the PS.

- Reflect the regulations on the approval and amendments to the EP in the regulatory documents of the QMS.

- To intensify work with foreign universities in order to develop joint EP.

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

- Carry out on a systematic basis research in the field of teaching methods of academic disciplines and draw up an action plan for the introduction of new developments in teaching methods into educational practice.

- Introduce the practice of reviewing assessment methods, ensuring that they take into account the impact of the learning environment

Standard "Students"

Recommend the development of procedures for the recognition of learning outcomes received by students through non-formal education.

Standard "Teaching staff"

- Take urgent measures to increase the degree of staffing of the department.

- Carry out work to improve qualifications according to a pre-developed plan for advanced training of teaching staff, taking into account the specifics of the EP.

- To intensify work on the development of academic mobility of teaching staff and attracting the best foreign and domestic scientists to the implementation of the educational process.

Standard "Educational resources and student support systems"

- To look for the possibility of providing unlimited access to the Internet in the university dormitories

Public Information Standard

Regularly publish on your own web resource financial statements in the context of EP.

Standard "Standards in the context of individual specialties"

Absent

Appendix 1. Evaluation table “PARAMETERS OF THE SPECIALIZED PROFILE EP “7M06103 INFORMATION BUSINESS ANALYTICS”, “8D06103 MODELING AND OPTIMIZING BUSINESS PROCESSES”

№ p\n	№ p\n	Evaluationcriteria	Position of the educational organization			
			Strong	Satisfactory	Suggestsimprovement	Unsatisfactory
Standard "Management of the educational program"						
1	1.	The institution of higher and / or postgraduate education must have a published quality assurance policy. The quality assurance policy should reflect the link between research, teaching and learning.	+			
2	2.	The organization of higher and (or) postgraduate education must demonstrate the development of a culture of quality assurance, including in the context of EP.	+			
3	3.	Commitment to quality assurance should apply to any activity performed by contractors and partners (outsourcing), including the implementation of joint / double degree education and academic mobility.	+			
4	4.	The EP management demonstrates its readiness to ensure transparency in the development of the EP development plan based on an analysis of its functioning, the actual positioning of the PA and the focus of its activities on meeting the needs of the state, employers, students and other stakeholders. The plan must contain the timing of the start of the implementation of the educational program.		+		
5	5.	The EP management demonstrates the existence of mechanisms for the formation and regular revision of the EP development plan and monitoring its implementation, assessing the achievement of learning goals, meeting the needs of students, employers and society, making decisions aimed at continuous improvement of the EP.		+		
6	6.	EP management should involve representatives of stakeholder groups, including employers, students and teaching staff, in the formation of the EP development plan.	+			
7	7.	TheEP management must demonstrate the individuality and uniqueness of the EP development plan, its consistency with national priorities and the development strategy of the organization of higher and (or) postgraduate education.	+			
8	8.	The organization of higher and (or) postgraduate education must demonstrate a clear definition of those responsible for business processes within the EP, an unambiguous distribution of staff duties, and the delineation of functions of collegial bodies	+			
9	9.	EP management must provide evidence of the transparency of the educational program management system.		+		
10	10.	The EP management must demonstrate the existence of an internal EP quality assurance system, including its design, management and monitoring, their improvement, decision making based on facts.	+			

11	11.	The EP management must carry out risk management, including within the framework of the EP undergoing primary accreditation, as well as demonstrate a system of measures aimed at reducing the degree of risk.		+		
12	12.	The EP management must ensure the participation of representatives of employers, teaching staff, students and other interested parties in the collegial management bodies of the educational program, as well as their representativeness in making decisions on the management of the educational program.		+		
13	13.	The OE must demonstrate innovation management within the EP, including the analysis and implementation of innovative proposals.		+		
14	14.	EP management must demonstrate evidence of readiness for openness and accessibility for students, teaching staff, employers and other interested parties.	+			
15	15.	The EP management should be trained in educational management programs.			+	
		Totalbystandard	**8**	**6**	**1**	
Standard "Information management and reporting"						
16	1.	The OE must demonstrate the existence of a system for collecting, analyzing and managing information based on the use of modern information and communication technologies and software and that it uses a variety of methods to collect and analyze information in the context of the EP.	+			
17	2.	EP management must demonstrate the existence of a mechanism for the systematic use of processed, adequate information to improve the internal quality assurance system.	+			
18	3.	The EP management must demonstrate fact-based decision making.	+			
19	4.	Within the EP, a system of regular reporting should be provided that reflects all levels of the structure, including an assessment of the effectiveness and efficiency of the activities of departments and departments, scientific research.	+			
20	5.	The OE should establish the frequency, forms and methods of assessing the EP management, the activities of collegial bodies and structural units, top management, and the implementation of scientific projects.			+	
21	6.	The OE must demonstrate the determination of the order and ensuring the protection of information, including the identification of persons responsible for the accuracy and timeliness of the analysis of information and the provision of data.	+			
22	7.	An important factor is the availability of mechanisms for involving students, employees and teaching staff in the processes of collecting and analyzing information, as well as making decisions based on them.	+			
23	8.	EP management must demonstrate the existence of a communication mechanism with students, employees and other stakeholders, as well as mechanisms for resolving conflicts.	+			
24	9.	The OE must demonstrate the existence of mechanisms for measuring the degree of satisfaction of the needs of teaching staff, personnel and students within the EP.		+		
25	10.	PA should provide for an assessment of the effectiveness and efficiency of activities, including in the context of EP.		+		

		Information intended for collection and analysis within the EP should take into account:				
26	11.	keyperformanceindicators;			+	
27	12.	dynamics of the enrollment in the context of forms and types;	+			
28	13.	academic performance, student achievement and expulsion;	+			
29	14.	satisfaction of students with the implementation of EP and the quality of education at the university;	+			
30	15.	availability of educational resources and support systems for students.	+			
31	16.	The OE must confirm the implementation of the procedures for processing personal data of students, employees and teaching staff on the basis of their documentary consent.	+			
		Totalbystandard	12	2	2	
Standard "Development and approval of basic educational programs"						
32	1.	The OE should define and document procedures for the development of the EP and their approval at the institutional level.	+			
33	2.	EP management must ensure that the developed EP meets the established goals, including the expected learning outcomes.		+		
34	3.	The EP management must ensure the availability of developed models of the EP graduate, describing the learning outcomes and personal qualities.		+		
35	4.	The EP management must demonstrate that external examinations of the EP content and the planned results of its implementation are carried out.		+		
36	5.	The qualification awarded upon completion of the EP must be clearly defined and correspond to a certain level of the NQF.	+			
37	6.	EP management must determine the impact of disciplines and professional practices on the formation of learning outcomes.			+	
38	7.	An important factor is the ability to prepare students for professional certification.	+			
30	8.	EP management must provide evidence of the participation of students, teaching staff and other stakeholders in the development of the EP, ensuring their quality.		+		
40	9.	The complexity of the EP should be clearly defined in Kazakhstani credits and ECTS.	+			
41	10.	The EP management must ensure that the content of academic disciplines and planned results are consistent with the level of education (bachelor's, master's, doctoral studies).	+			
42	11.	The structure of the EP should provide for various types of activities to ensure that students achieve the planned learning outcomes.	+			

43	12.	An important factor is the correspondence between the content of the EP and the learning outcomes of the EP, implemented by organizations of higher and (or) postgraduate education in the EHEA.	+			
		Totalbystandard	**7**	**4**	**1**	
Standard "Continuous monitoring and periodic evaluation of basic educational programs"						
44	1.	The OE should determine the mechanisms for monitoring and periodic evaluation of the EP in order to ensure the achievement of the goal and meet the needs of students and society. The results of these processes should be aimed at continuous improvement of the EP.		+		
		Monitoring and periodic evaluation of the EP should include:				
45	2.	the content of the programs in the light of the latest achievements of science in a specific discipline to ensure the relevance of the taught discipline;		+		
46	3.	changes in the needs of society and professional environment;	+			
47	4.	workload and performance of students;	+			
48	5.	the effectiveness of student assessment procedures;	+			
49	6.	expectations, needs and satisfaction of students with EP training;	+			
50	7.	educational environment and support services and their compliance with the goals of the EP.	+			
51	8.	OE, EP management should define a mechanism for informing all interested parties about any planned or taken actions in relation to the EP.			+	
52	9.	All changes made to the EP must be published. The EP's management should develop a mechanism for revising the content and structure of the EP, taking into account changes in the labor market, employers' requirements and the social demand of society.	+			
		Total by standard	**6**	**2**	**1**	
Standard "Student-centered learning, teaching and assessment of progress"						
53	1.	EP management must ensure respect and attention to various groups of students and their needs, provide them with flexible learning paths.	+			
54	2.	EP management should provide for the use of various forms and methods of teaching and learning.		+		
55	3.	An important factor is the availability of their own research in the field of teaching methods of educational disciplines EP.	+			
56	4.	EP management must demonstrate the existence of feedback mechanisms on the use of various teaching methods and assessment of learning outcomes.		+		
57	5.	The EP management must demonstrate the existence of mechanisms to support the autonomy of students with simultaneous guidance and	+			

		assistance from the teacher.				
58	6.	EP management must demonstrate the existence of a procedure for responding to student complaints.	+			
59	7.	The OE must ensure consistency, transparency and objectivity of the learning outcome assessment mechanism for each EP, including appeal.	+			
60	8.	The OE must ensure that the procedures for assessing the learning outcomes of EP students are consistent with the planned results and objectives of the program. Criteria and methods of assessment within the EP should be published in advance		+		
61	9.	In the OE, the mechanisms for ensuring the achievement of learning outcomes by each EP graduate should be determined and the completeness of their formation should be ensured.		+		
62	10.	Evaluators should be proficient in modern methods of assessing learning outcomes and regularly improve their qualifications in this area.	+			
		Total by standard	**6**	**4**		
Standard "Students"						
63	1.	The OE must demonstrate the existence of a policy for the formation of the contingent of students in the context of EP from admission to graduation and ensure the transparency of its procedures. The procedures governing the life cycle of students (from admission to completion) must be defined, approved, published.	+			
		EP management should determine the procedure for the formation of the contingent of students based on:				
64	2.	minimumrequirementsforapplicants;	+			
65	3.	the maximum size of the group when conducting seminars, practical, laboratory and studio classes;	+			
66	4.	forecasting the number of government grants;	+			
67	5.	analysis of the available material and technical, information resources, human resources;	+			
68	6.	analysis of potential social conditions for students, including providing places in the hostel.	+			
69	7.	The EP management must demonstrate its readiness to conduct special adaptation and support programs for newly admitted and foreign students.		+		
70	8.	The OE must demonstrate that its actions are in accordance with the Lisbon Recognition Convention.	+			
71	9.	CBOs should cooperate with other educational organizations and national centers of the “European Network of National Information Centers for Academic Recognition and Mobility / National Academic Recognition Information Centers” ENIC / NARIC in order to ensure comparable recognition of qualifications.	+			
72	10.	The EP management must demonstrate the existence of a mechanism for recognizing the results of academic mobility of students, as well as the results of additional, formal and non-formal education.		+		
73	11.	OE should provide an opportunity for external and internal mobility of students of EP, as well as a willingness to assist them in obtaining external grants for training.	+			
74	12.	The EP management must demonstrate its readiness to provide students with places of practice, to facilitate the employment of graduates, and to maintain communication with them.	+			

75	13.	The OE should provide for the possibility of providing EP graduates with documents confirming the acquired qualifications, including the achieved learning outcomes, as well as the context, content and status of the education received and evidence of its completion.			+	
76	14.	An important factor is the availability of mechanisms for monitoring the employment and professional activities of EP graduates.	+			
		Total by standard	**11**	**2**	**1**	
Standard"Academic teachingstaff"						
77	1.	OE must have an objective and transparent personnel policy, including in the context of EP, including recruitment, professional growth and development of personnel, ensuring the professional competence of the entire staff.	+			
78	2.	The PA must demonstrate the compliance of the staff potential of the teaching staff with the development strategy of the OE and the specifics of the EP.		+		
79	3.	EP management must demonstrate awareness of responsibility for their employees and providing them with favorable working conditions.	+			
80	4.	EP management must demonstrate the change in the role of the teacher in connection with the transition to student-centered learning	+			
81	5.	OE should determine the contribution of the teaching staff of the EP to the implementation of the development strategy of the PA, and other strategic documents.	+			
82	6.	PA should provide opportunities for career growth and professional development of the teaching staff of the EP.	+			
83	7.	The EP management must demonstrate a willingness to involve practitioners from relevant industries in teaching.	+			
84	8.	OE should demonstrate the motivation for the professional and personal development of EP teachers, including encouragement for the integration of scientific activity and education, the use of innovative teaching methods.	+			
85	9.	An important factor is the willingness to develop academic mobility within the EP, to attract the best foreign and domestic teachers		+		
		Total by standard	**7**	**2**		
Standard "Educational resources and student support systems"						
86	1.	The OE must ensure a sufficient number of training resources and student support services that meet the goals of the EP.	+			
87	2.	The OE must demonstrate the sufficiency of material and technical resources and infrastructure, taking into account the needs of various groups of students in the context of EP (adults, working people, foreign students, as well as students with disabilities).	+			
		The EP management must demonstrate the existence of support procedures for various groups of students, including information and counseling. The EP management must demonstrate the compliance of information resources with the EP specifics, including:	+			
88	3.	technological support for students and teaching staff in accordance with educational programs (for example, online training, modeling, databases, data analysis programs);	+			

89	4.	library resources, including the fund of educational, methodological and scientific literature on general education, basic and major disciplines on paper and electronic media, periodicals, access to scientific databases;	+			
90	5.	examination of research results, graduation works, dissertations for plagiarism;		+		
91	6.	access to educational Internet resources;	+			
92	7.	functioning of WI-FI on the territory of the educational organization.			+	
93	8.	The OE should strive to ensure that the educational equipment and software intended for use in the development of educational programs are similar to those used in the relevant industries.	+			
		Total by standard	**6**	**1**	**1**	
Standard"Publicawareness"						
		The OE must publish reliable, objective, relevant information about the educational program and its specifics, which must include:				
94	1.	expected learning outcomes of the educational program being implemented;	+			
95	2.	qualifications and (or) qualifications that will be awarded upon completion of the educational program;	+			
96	3.	approaches to teaching, learning, as well as the system (procedures, methods and forms) of assessment;		+		
97	4.	information about passing scores and learning opportunities provided to students;	+			
98	5.	information about the possibilities of employment of graduates.	+			
99	6.	The EP management should provide for a variety of ways to disseminate information, including the media, information networks to inform the general public and stakeholders.	+			
100	7.	Public awareness should include support and explanation of national development programs for the country and the system of higher and postgraduate education.	+			
101	8.	OE must demonstrate the reflection on the web resource of information that characterizes it in general and in the context of educational programs.	+			
102	9.	An important factor is the availability of adequate and objective information about the teaching staff of the EP.	+			
103	10.	An important factor is informing the public about cooperation and interaction with partners within the EP.		+		
		Total by standard	**7**	**3**		
Standards in the context of different specialties						
NATURAL SCIENCES, AGRICULTURAL SCIENCES, TECHNICAL SCIENCES, AND TECHNOLOGIES						
		The educational program of the directions "Natural Sciences", "Technical Sciences and Technologies" must meet the following requirements:				
112	1.	The EP should include disciplines and activities aimed at gaining practical experience and skills in the specialty in general and	+			

		major disciplines in particular, including: - excursions to enterprises for specialization (factories, workshops, research institutes, laboratories, training and experimental farms, etc.), - conducting individual classes or entire disciplines at the enterprise of specialization; - holding seminars to solve practical problems relevant for enterprises in the field of specialization, etc.				
113	2.	The faculty involved in the education program should include, as full-time teachers, practitioners with long-term experience as full-time employees in enterprises in the area of specialization of the education program.	+			
114	3.	The content of all EP disciplines should be based on and include a clear relationship with the content of fundamental natural sciences.		+		
115	4.	EP management should provide for measures to strengthen practical training in the field of specialization.	+			
116	5.	The EP management should provide for the training of students in the use of modern information technologies.	+			
		Total by standrad	**4**	**1**		
		TOTAL	**74**	**27**	**7**	

"PARAMETERS OF THE SPECIALIZED PROFILE OF EP "6B06102 BUSINESS INFORMATICS"

№ p\n	№ p\n	Evaluationcriteria	Position of the educational organization			
			Strong	Satisfactory	Suggestsimprovement	Unsatisfactory
Standard "Management of the educational program'						
1	16.	The institution of higher and / or postgraduate education must have a published quality assurance policy. The quality assurance policy should reflect the link between research, teaching and learning.	+			
2	17.	The organization of higher and (or) postgraduate education must demonstrate the development of a culture of quality assurance, including in the context of EP.	+			
3	18.	Commitment to quality assurance should apply to any activity performed by contractors and partners (outsourcing), including the implementation of joint / double degree education and academic mobility.	+			
4	19.	The EP management demonstrates its readiness to ensure transparency in the development of the EP development plan based on an analysis of its functioning, the actual positioning of the OE and the focus of its activities on meeting the needs of the state, employers, students and other stakeholders. The plan must contain the timing of the start of the implementation of the educational program.		+		
5	20.	The EP management demonstrates the existence of mechanisms for the formation and regular revision of the EP development plan and monitoring its implementation, assessing the achievement of learning goals, meeting the needs of students, employers and society, making decisions aimed at continuous improvement of the EP.		+		
6	21.	EP management should involve representatives of stakeholder groups, including employers, students and teaching staff, in the formation of the EP development plan.		+		
7	22.	The EP management must demonstrate the individuality and uniqueness of the EP development plan, its consistency with national priorities and the development strategy of the organization of higher and (or) postgraduate education.			+	
8	23.	The organization of higher and (or) postgraduate education must demonstrate a clear definition of those responsible for business processes within the EP, an unambiguous distribution of staff duties, and the	+			

		delineation of functions of collegial bodies.				
9	24.	EP management must provide evidence of the transparency of the educational program management system.			+	
10	25.	The EP management must demonstrate the existence of an internal EP quality assurance system, including its design, management and monitoring, their improvement, decision making based on facts.		+		
11	26.	The EP's management must carry out risk management, including within the framework of the EP undergoing primary accreditation, as well as demonstrate a system of measures aimed at reducing the degree of risk.			+	
12	27.	The EP management must ensure the participation of representatives of employers, teaching staff, students and other interested parties in the collegial management bodies of the educational program, as well as their representativeness in making decisions on the management of the educational program.		+		
13	28.	The TOE must demonstrate innovation management within the EP, including the analysis and implementation of innovative proposals.			+	
14	29.	EP management must demonstrate evidence of readiness for openness and accessibility for students, teaching staff, employers and other stakeholders.		+		
15	30.	The EP management should be trained in educational management programs.			+	
		Total by standard	**4**	**6**	**5**	
Standard "Information management and reporting"						
16	10.	The OE must demonstrate that it has a system for collecting, analyzing and managing information based on the use of modern information and communication technologies and software and that it uses a variety of methods to collect and analyze information in the context of the EP.	+			
17	11.	EP management must demonstrate the existence of a mechanism for the systematic use of processed, adequate information to improve the internal quality assurance system.			+	
18	12.	The EP management must demonstrate fact-based decision making.	+			
19	13.	Within the EP, a system of regular reporting should be provided that reflects all levels of the structure, including an assessment of the effectiveness and efficiency of the activities of departments and departments, scientific research.		+		
20	14.	The OE should establish the frequency, forms and methods of assessing the EP management, the activities of collegial bodies and structural units, top management, and the implementation of scientific projects.			+	

21	15.	The OE must demonstrate the determination of the order and ensuring the protection of information, including the identification of persons responsible for the accuracy and timeliness of the analysis of information and the provision of data.			+	
22	16.	An important factor is the availability of mechanisms for involving students, employees and teaching staff in the processes of collecting and analyzing information, as well as making decisions based on them.		+		
23	17.	EP management must demonstrate the existence of a communication mechanism with students, employees and other stakeholders, as well as mechanisms for resolving conflicts.	+			
24	18.	The OE must demonstrate the existence of mechanisms for measuring the degree of satisfaction of the needs of teaching staff, personnel and students within the EP.		+		
25	10.	OE should provide for an assessment of the effectiveness and efficiency of activities, including in the context of EP.			+	
		Information intended for collection and analysis within the EP should take into account:				
26	11.	keyperformanceindicators;			+	
27	12.	dynamics of the contingent of students in the context of forms and types;	+			
28	13.	academic performance, student achievement and expulsion;		+		
29	14.	satisfaction of students with the implementation of EP and the quality of education at the university;		+		
30	15.	availability of educational resources and support systems for students.	+			
31	16.	The OE must confirm the implementation of the procedures for processing personal data of students, employees and teaching staff on the basis of their documentary consent.			+	
		Total by standard	**5**	**5**	**6**	
Standard "Development and approval of basic educational programs"						
32	13.	The OE should define and document procedures for the development of the EP and their approval at the institutional level.	+			
33	14.	The EP management must ensure that the developed EP meets the established goals, including the expected learning outcomes.		+		
34	15.	The EP management must ensure the availability of developed models of the EP graduate, describing the learning outcomes and personal qualities.		+		

35	16.	The EP management must demonstrate the conduct of external examinations of the EP content and the planned results of its implementation.		+		
36	17.	The qualification awarded upon completion of the EP must be clearly defined and correspond to a certain level of the NQF.	+			
37	18.	EP management must determine the influence of disciplines and professional practices on the formation of learning outcomes.			+	
38	19.	An important factor is the ability to prepare students for professional certification.		+		
30	20.	EP management must provide evidence of the participation of students, teaching staff and other stakeholders in the development of the EP, ensuring their quality.			+	
40	21.	The complexity of the EP should be clearly defined in Kazakhstani credits and ECTS.	+			
41	22.	The EP management must ensure that the content of academic disciplines and the planned results are consistent with the level of education (bachelor's, master's, doctoral studies).		+		
42	23.	The structure of the EP should provide for various types of activities to ensure that students achieve the planned learning outcomes.		+		
43	24.	An important factor is the correspondence between the content of the EP and the learning outcomes of the EP, implemented by organizations of higher and (or) postgraduate education in the EHEA.		+		
		Total by standard	**3**	**7**	**2**	
Standard "Continuous monitoring and periodic evaluation of basic educational programs"						
44	10.	The OE should determine the mechanisms for monitoring and periodic evaluation of the EP in order to ensure the achievement of the goal and meet the needs of students and society. The results of these processes should be aimed at continuous improvement of the EP.		+		
		Monitoring and periodic evaluation of the EP should include:				
45	11.	the content of the programs in the light of the latest achievements of science in a specific discipline to ensure the relevance of the taught discipline;		+		
46	12.	changes in the needs of society and professional environment;		+		
47	13.	workload and performance of students;	+			
48	14.	the effectiveness of student assessment procedures;		+		
49	15.	expectations, needs and satisfaction of students with EP training;			+	

50	16.	educational environment and support services and their compliance with the goals of the EP.	+			
51	17.	OE, EP management should define a mechanism for informing all interested parties about any planned or taken actions in relation to the EP.			+	
52	18.	All changes made to the EP must be published. The EP management should develop a mechanism for revising the content and structure of the EP, taking into account changes in the labor market, employers' requirements and the social demand of society.			+	
		Total by standard	**2**	**4**	**3**	
Standard "Student-centered learning, teaching and assessment of progress"						
53	11.	EP management must ensure respect and attention to various groups of students and their needs, provide them with flexible learning paths.			+	
54	12.	EP management should provide for the use of various forms and methods of teaching and learning.		+		
55	13.	An important factor is the availability of their own research in the field of teaching methods of educational disciplines EP.	+			
56	14.	EP management must demonstrate the existence of feedback mechanisms on the use of various teaching methods and assessment of learning outcomes.		+		
57	15.	The EP management must demonstrate the existence of mechanisms to support the autonomy of students with simultaneous guidance and assistance from the teacher.	+			
58	16.	EP management must demonstrate the existence of a procedure for responding to student complaints.	+			
59	17.	The OE must ensure consistency, transparency and objectivity of the learning outcome assessment mechanism for each EP, including appeal.	+			
60	18.	The OE must ensure that the procedures for assessing the learning outcomes of EP students are consistent with the planned results and objectives of the program. Criteria and methods of assessment within the EP should be published in advance.		+		
61	19.	In the OE, mechanisms should be determined to ensure the achievement of learning outcomes by each EP graduate and the completeness of their formation should be ensured.		+		
62	20.	Evaluators should be proficient in modern methods of assessing learning outcomes and regularly improve their qualifications in this area	+			
		Total by standard	**6**	**4**	**0**	
Standard "Students"						
63	15.	The OE must demonstrate the existence of a policy for the formation of the contingent of students in the context of EP from admission to graduation and ensure the transparency of its procedures. The procedures governing the life cycle of students (from	+			

		admission to completion) must be defined, approved, published.				
		EP management should determine the procedure for the formation of the contingent of students based on:				
64	16.	minimumrequirementsforapplicants;		+		
65	17.	the maximum size of the group when conducting seminars, practical, laboratory and studio classes;		+		
66	18.	forecasting the number of government grants;		+		
67	19.	analysis of the available material and technical, information resources, human resources;	+			
68	20.	analysis of potential social conditions for students, incl. providing places in the hostel.	+			
69	21.	The EP management must demonstrate its readiness to conduct special adaptation and support programs for newly admitted and foreign students.		+		
70	22.	The OE must demonstrate that its actions are in accordance with the Lisbon Recognition Convention.	+			
71	23.	OEs should cooperate with other educational organizations and national centers of the "European Network of National Information Centers for Academic Recognition and Mobility / National Academic Recognition Information Centers" ENIC / NARIC in order to ensure comparable recognition of qualifications.	+			
72	24.	The EP management must demonstrate the existence of a mechanism for recognizing the results of academic mobility of students, as well as the results of additional, formal and non-formal education.		+		
73	25.	OE should provide an opportunity for external and internal mobility of students of EP, as well as a willingness to assist them in obtaining external grants for training.			+	
74	26.	The EP management must demonstrate its readiness to provide students with places of practice, to facilitate the employment of graduates, and to maintain communication with them.	+			
75	27.	The OE should provide for the possibility of providing EP graduates with documents confirming the acquired qualifications, including the achieved learning outcomes, as well as the context, content and status of the education received and evidence of its completion.		+		
76	28.	An important factor is the availability of mechanisms for monitoring the employment and professional activities of EP graduates.	+			
		Total by standard	**7**	**6**	**1**	
Standard“Academic teachingstaff”						
77	10.	PA must have an objective and transparent personnel policy, including in the context of EP, including recruitment, professional growth and development of personnel, ensuring the professional competence of	+			

		the entire staff.				
78	11.	The OE must demonstrate the compliance of the staff potential of the teaching staff with the development strategy of the OE and the specifics of the EP.		+		
79	12.	EP management must demonstrate awareness of responsibility for their employees and providing them with favorable working conditions.	+			
80	13.	EP management must demonstrate the change in the role of the teacher in connection with the transition to student-centered learning.	+			
81	14.	OE should determine the contribution of the teaching staff of the EP to the implementation of the development strategy of the OE, and other strategic documents.	+			
82	15.	PA should provide opportunities for career growth and professional development of the teaching staff of the EP.	+			
83	16.	The EP management must demonstrate a willingness to involve practitioners from relevant industries in teaching.	+			
84	17.	PA should demonstrate the motivation for the professional and personal development of EP teachers, including encouragement for the integration of scientific activity and education, the use of innovative teaching methods.	+			
85	18.	An important factor is the willingness to develop academic mobility within the EP, to attract the best foreign and domestic teachers.		+		
		Total by standard	**7**	**2**		
Standard "Educational resources and student support systems"						
86	1.	The OE must ensure a sufficient number of training resources and student support services that meet the goals of the EP.	+			
87	2.	The OE must demonstrate the sufficiency of material and technical resources and infrastructure, taking into account the needs of various groups of students in the context of EP (adults, working people, foreign students, as well as students with disabilities).	+			
		The EP management must demonstrate the existence of procedures for supporting various groups of students, including information and counseling. The EP management must demonstrate the compliance of information resources with the EP specifics, including:	+			
88	3.	technological support for students and teaching staff in accordance with educational programs (for example, online training, modeling, databases, data analysis programs);	+			
89	4.	library resources, including the fund of educational, methodological and scientific literature on general education, basic and major disciplines on paper and	+			

		electronic media, periodicals, access to scientific databases;				
90	5.	examination of research results, graduation works, dissertations for plagiarism;		+		
91	6.	access to educational Internet resources;	+			
92	7.	functioning of WI-FI on the territory of the educational organization.			+	
93	8.	The OE should strive to ensure that the educational equipment and software intended for use in the development of educational programs are similar to those used in the relevant industries.	+			
		Total by standard	**6**	**1**	**1**	
Standard"Publicawareness"						
		The OE must publish reliable, objective, relevant information about the educational program and its specifics, which must include:				
94	1.	expected learning outcomes of the educational program being implemented;	+			
95	2.	qualifications and (or) qualifications that will be awarded upon completion of the educational program;	+			
96	3.	approaches to teaching, learning, as well as the system (procedures, methods and forms) of assessment;		+		
97	4.	information about passing scores and learning opportunities provided to students;	+			
98	5.	information about the possibilities of employment of graduates.	+			
99	6.	The EP management should provide for a variety of ways to disseminate information, including the media, information networks to inform the general public and stakeholders.	+			
100	7.	Public awareness should include support and explanation of national development programs for the country and the system of higher and postgraduate education.	+			
101	8.	OE must demonstrate the reflection on the web resource of information that characterizes it in general and in the context of educational programs.	+			
102	9.	An important factor is the availability of adequate and objective information about the teaching staff of the EP.	+			
103	10.	An important factor is informing the public about cooperation and interaction with partners within the EP.		+		
		Total by standard	**7**	**3**		
Standards in the context of different specialties						
NATURAL SCIENCES, AGRICULTURAL SCIENCES, TECHNICAL SCIENCES, AND TECHNOLOGIES						

		The educational program of the directions “Natural Sciences”, “Technical Sciences and Technologies” must meet the following requirements:				
112	1.	The EP should include disciplines and activities aimed at gaining practical experience and skills in the specialty in general and major disciplines in particular, including: - excursions to enterprises for specialization (factories, workshops, research institutes, laboratories, training and experimental farms, etc.), - conducting individual classes or entire disciplines at the enterprise of specialization; - holding seminars to solve practical problems relevant for enterprises in the field of specialization, etc.	+			
113	2.	The faculty involved in the education program should include, as full-time teachers, practitioners with long-term experience as full-time employees in enterprises in the area of specialization of the education program.	+			
114	3.	The content of all EP disciplines should be based on and include a clear relationship with the content of fundamental natural sciences.		+		
115	4.	EP management should provide for measures to strengthen practical training in the field of specialization.	+			
116	5.	The EP management should provide for the training of students in the use of modern information technologies.	+			
		Total by standard	**4**	**1**		
		TOTAL	**47**	**43**	**18**	