



«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 for
evaluating the compliance with the standards for specialized
accreditation of educational programs

6B07309 – BIM technologies in design

7M07312 – Land Cadastre and Land Management

D. SERIKBAEV EAST KAZAKHSTAN TECHNICAL UNIVERSITY

April 25 - 27, 2023

INDEPENDENT AGENCY FOR ACCREDITATION AND RATING
External Expert Commission

*Addressed to
Accreditation
Council of the IAAR*



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(I) LIST OF TERMS AND ABBREVIATIONS

AC - Academic Calendar
BC - Basic Courses
EEAA - External Evaluation of Academic Achievements
SAC - State Attestation Commission
SCES - State Compulsory Educational Standard
DLT - Distance Learning Technologies
UNT - Unified National Test
EHEA - European Higher Education Area
ECTS - European Credit Transfer System
ILC - Information and Library Complex
ICT - Information and Communication Technologies
ISP - Individual Study Plan
EC - Elective Component
CT - Comprehensive Testing
CTE - Credit Technology of Education
CED - Catalogue of elective disciplines
MESRK - Ministry of Education and Science of the Republic of Kazakhstan
MEP - Modular Educational Programs
RW - Research work
RWS - Research work of students
RC – Required component
GED – General education disciplines
EP – Educational programs
PD – Profile disciplines
TS – Teaching staff
RIUEL– Republican Interuniversity Electronic Library
RK – Republic of Kazakhstan
WC – Working Curriculum
QMS – Quality Management System
SVE – Secondary vocational education
IWS – Independent work of students
IWST – Independent work of students under the guidance of a teacher
SC – Standard Curriculum
EMCD – Educational and methodical complex of the discipline
EMD – Educational and Methodical Department
EMC – Educational and Methodological Council

(II) INTRODUCTION

In accordance with the order № 39-23-OD 24.02.2023 dated of the Independent Agency For Accreditation And Rating from April 25-27, 2023, the external expert commission conducted an assessment of compliance of educational programs "6B07309 - BIM-technologies in design", "7M07312 - Land Cadastre and Land Management" of D. Serikbayev East Kazakhstan Technical University with the standards of specialized accreditation of the NAAR (from "16" June 2020 № 57-20-OD, edition sixth) in hybrid format.

The report of the External Expert Commission (EEC) contains the assessment of the submitted educational programs to the criteria of the NAAR, recommendations of the EEC on further improvement of educational programs and parameters of the profile of educational programs.

Composition of the EEC:

1. **Chairman of the EEC IAAR** - Andrey Valerievich Tamyarov, Candidate of Technical Sciences, Associate Professor, FGBOU HE "Ulyanovsk State Technical University"; Off-line participation
2. **IAAR Foreign Expert** - Konstantin Korolev, Candidate of Economic Sciences, Associate Professor, Russian Presidential Academy of National Economy and Public Administration (RANEPA); On-line participation
3. **IAAR Foreign Expert** - Victor Voropaev, Candidate of Technical Sciences, Yanka Kupala State University of Grodno; On-line participation
4. **IAAR Foreign expert** - Mammadova Leyla Vasif gizi, Azerbaijan University of Architecture and Civil Engineering (Baku, Azerbaijan Republic); On-line participation.
5. **IAAR Expert** - Dina Maratovna Aikenova, PhD, II Category Expert (Astana, Republic of Kazakhstan); On-line Participation
6. **IAAR Expert** - Abishev Medeu Yerzhanovich, d.p.m.s. Professor, Al-Farabi Kazakh National University (Almaty, Republic of Kazakhstan); Off-line Participation
7. **IAAR Expert** - Gulnara Malikovna Kushebina, c.e.s, Esil University (Astana, Republic of Kazakhstan); Off-line participation.
8. **IAAR Expert** - Maia Zhetkergenna Arzaeva, c.e.s, Associate Professor, Kazakh National Agrarian Research University (Almaty, Republic of Kazakhstan); On-line participation
9. **IAAR expert** – Ualkhanov Baizhan Nurbayevich, c.t.s., Professor, Innovative Eurasian University (Pavlodar, Republic of Kazakhstan); Off-line participation
10. **IAAR expert** – Elmira Mursalimova, c.b.s., Kazakh National Agrarian Research University (Almaty, Republic of Kazakhstan); On-line participation
11. **IAAR expert** – Jetpisbayeva Ainur Zhenisbekkyzy, PhD, K.I. Satpayev Kazakh National Research Technical University (Almaty, Republic of Kazakhstan); On-line participation
12. **IAAR expert** – Gulnara Bayanovna Turtkarayeva, c.p.s., Associate Professor, Sh. Kokshetau University. Ualikhanov (Kokshetau, Republic of Kazakhstan); Off-line participation
13. **IAAR expert** – Maxim S. Korobkov, PhD, Gumarbek Daukeev Almaty University of Energy and Communications (Almaty, Republic of Kazakhstan); Off-line participation
14. **Employer-IAAR expert** – Yuri A. Pilipenko, Chairman of the International Association of Manufacturers of Goods and Services "Expobest" (Almaty, Republic of Kazakhstan); On-line participation.
15. **IAAR Employer expert** – Pitrov Vladimir Yuryevich, Director of the Pavlodar regional branch of JSC "UAPF" (Pavlodar, Republic of Kazakhstan); On-line participation

16. **IAAR Student-expert** – Cəbiyeva Maya Rövşən qızı (Jabiyeva May Rovshan kyzy) 4th year student of the educational program 050813 Social Work of Baku State University (Baku, Azerbaijan Republic); On-line participation
17. **IAAR Student-expert**– Abilova Indira Tolegenkyzy, 1st year student of the educational program 7M01511 Informatics of the L.N. Gumilyov Eurasian National University (Astana, Republic of Kazakhstan); On-line participation
18. **IAAR Student-expert** – Sultan Nauryzbayev, 3rd year student of the educational program 6B04109 State Financial Management of Al-Farabi Kazakh National University, member of the Alliance of Students of Kazakhstan ASK (Almaty, Republic of Kazakhstan); On-line participation
19. **IAAR Student-expert** – Makazhanov Timur Bolatovich, 1st year student of the educational program 7M07303 Cadastre of the S. Seifullin Kazakh Agrotechnical University (Astana, Republic of Kazakhstan); On-line participation
20. **IAAR Student-expert** – Islyamgali Nursultan Arturuly, a student of the 1st year of the educational program 6B05101 Biology and Agriculture of H. Dosmukhamedova Atyrau University (Atyrau, Republic of Kazakhstan); On-line participation
21. **IAAR Student-expert** – Mustafina Mergul Oralbekovna, first-year doctoral student of the educational program 8D05401 of the S. Amanzholov East Kazakhstan University (Ust-Kamenogorsk, Republic of Kazakhstan); Off-line participation
22. **The coordinator of the EEC** - Kydyrmina Nurgul Alimovna, the Head of the IAAR project (Astana, Republic of Kazakhstan). Off-line participation



(III) REPRESENTATION OF THE EDUCATIONAL ORGANIZATION

EKTU: A world-class research Technical University – a center for advanced engineering education and high-tech research.

D. Serikbayev East Kazakhstan Technical University (EKTU) is a basic engineering university of Kazakhstan, a center for generating new knowledge and innovations, located in the large administrative, industrial center of East Kazakhstan, Ust-Kamenogorsk. It is located at the junction of the borders of Russia, China, and Mongolia. The university has a 60-year history of training highly qualified engineering personnel.

1958 - Ust-Kamenogorsk Road Construction Institute (UKRCI) was established by the Resolution of the USSR Ministers Council August 5 dated, No. 866, and the Resolution of the Kazakh SSR Ministers Council dated August 30, No. 765.

1987 - the university's first certification was carried out, confirming its strong place among the country's leading universities.

1996 - UKRCI was reorganized into East Kazakhstan Technical University by the Government Decree of the Republic of Kazakhstan dated May 7, No. 573. At the university's request, it was named by the first rector Daulet Serikbayev by the Government Decree of the Republic of Kazakhstan 3.11.1997 dated, No. 1485.

D. Serikbayev East Kazakhstan Technical University, among the first universities of the Republic of Kazakhstan, has implemented an anti-corruption management system conforming to the international standard ISO 37001:2016. In December 2021, the university successfully passed the international certification for compliance of the anti-corruption management system with the requirements of ISO 37001:2016, and received a certificate. The IQNet (Quality Austria) certification mark was also awarded.

The last recertification audit of the quality management system for compliance with the international standard ISO 9001:2015 of the EKTU was successfully conducted from October 27 to 29, 2021. The Russian Register Eurasia LLP conducted the audit.

Information about the School of Architecture and Construction.

The School of Architecture and Construction is one of the oldest schools of the university, which since 1958 has been training specialists in the field of architecture, industrial and civil engineering, construction of highways, bridges and tunnels, water supply and sanitation, as well as in the following areas: design; standardization and certification; production of building materials, products and structures; geodesy and cartography; land management and cadastre.

The school conducts training in two areas - bachelor's and master's degree.

Traditions, experience of scientific and pedagogical personnel, unique material and technical base, scientific laboratories - all this is a guarantee of high quality of graduate training.

Bachelors and masters are trained by 80 full-time teachers. Among them are doctors and candidates of technical, physical, mathematical and pedagogical sciences.

Leading teachers are the authors of not only textbooks, textbooks, electronic textbooks, but also inventions. The school maintains constant creative ties with research institutes, universities, enterprises of the near and far abroad of Kazakhstan and Russia, such as: KazSRICSA, KAZGACA, NGACU, Samara GACA.

There are three Centers at the school: the Center for Competencies and Technology Transfer in the Field of Construction, the Center for Competencies and Technology Transfer in the Field of Water Management and Water Use, and the Center for BIM Design.

EP 6B07305 – "Construction" includes "BIM technologies in design" as a learning path

Information about the School of Earth Sciences.

The School of Earth Sciences was established as the Mining and Metallurgical Faculty in 1995. The creation of the mining and metallurgical faculty is natural and is connected with the specifics of the region, in which the deposits of a significant part of the minerals of the Republic of Kazakhstan and, accordingly, the largest mining and processing enterprises of the mining and metallurgical complex are concentrated. The normal functioning of the latter depends to a certain

extent on the qualifications of engineering personnel, whose education and training is carried out at this school.

The school provides an opportunity to get a profession that is in great demand in the region, where mining and metallurgical enterprises are the basic ones.

Currently, about 1,500 students study at the school in 5 bachelor's degree programs, 6 master's degree directions and 1 doctoral degree specialty.

7M07312 - Land cadastre and land management. The purpose of the EP is to create an educational environment favorable for the professional formation and intellectual development of a specialist who is able to successfully conduct research and development in the field of land management and cadastre, to demonstrate functional literacy and competitiveness in professional, scientific, pedagogical activities.

Relevance of the program: the educational program is based on the fundamental principles of the current land legislation of the Republic of Kazakhstan. Graduates of the EP "Land Cadastre and Land Management" acquire skills in working and processing data in specialized computer programs (AutoCAD, MapInfo, QGIS, FOTOMOD, Agisoft PhotoScan, GIS Sputnik Agro, etc.), are able to work with modern geodetic equipment, perform topographic surveys of the area, develop digital maps and maintain databases.



IAAR

(IV) DESCRIPTION OF THE PREVIOUS ACCREDITATION PROCEDURE

Educational programs 6B07309 - BIM-technologies in design and 7M07312 - Land cadastre and land management are being accredited by NAAR for the first time.



(V) VISIT DESCRIPTION EEC

The work of the EEC was carried out on the basis of the approved Program of the visit of the expert commission for specialized accreditation of educational programs of D. Serikbayev East Kazakhstan Technical University in the period from April 25- 27, 2023.

In order to coordinate the work of the EEC on 21.04.2023, an on-line introductory meeting was held, during which the powers were distributed among the members of the commission, the schedule of the visit was clarified, and agreement was reached on the choice of methods of expertise.

To obtain objective information about the quality of educational programs and the entire infrastructure of the university, to clarify the content of self-assessment reports, meetings with the rector, vice-rectors of the university in the areas of activity, heads of structural units, heads of departments, teachers, students, graduates, employers were held. A total of 76 representatives took part in the meetings (Table 1).

Table 1 - Information on staff and trainees who participated in meetings with the NAAR EEC:

Participant Category	Number
Rector	1
Vice-Rector's Office	6
Heads of structural subdivisions	16
Deans	11
Department Heads	7
Professors	18
Students, master's students, doctoral students	17
Graduate students	4
Employers	3
Total	76

During the visual inspection the EEC members got acquainted with the state of the material and technical base, visited the laboratories of construction, ecology and organization of transportation, traffic and operation of transport, office-registrar, medical center, computer and lecture rooms, conference hall.

During the meetings of the NAAR EEC with the university target groups, the mechanisms of the university policy implementation were clarified and individual data presented in the self-assessment report of the university were specified.

During the accreditation period the experts made an online visit to the industrial practice bases of the students of the accredited EPs.

In accordance with the accreditation procedure online questionnaire survey of 71 teachers, 41 students of the University was conducted.

In order to confirm the information presented in the Self-Assessment Report, the external experts requested and analyzed the working documentation of the University. At the same time, the experts studied the Internet positioning of the University through the official website of the University <https://www.ektu.kz>.

As part of the planned program, recommendations for improving accredited educational programs of D. Serikbayev East Kazakhstan Technical University, developed by the EEC based on the results of the examination, were presented at a meeting with the management on 04/27/2023.

(VI) COMPLIANCE WITH SPECIALIZED ACCREDITATION STANDARDS

6.1. Standard "Educational Program Management"

- ✓ *The university should demonstrate the development of a goal and strategy for the development of the EP based on the analysis of external and internal factors with the broad involvement of a variety of stakeholders.*
- ✓ *The quality assurance policy should reflect the relationship between scientific research, teaching and learning.*
- ✓ *The university demonstrates the development of a culture of quality assurance.*
- ✓ *Commitment to quality assurance should apply to any activity performed by contractors and partners (outsourcing), including the implementation of joint/double-degree education and academic mobility.*
- ✓ *The management of the EP ensures transparency in the development of the EP development plan based on an analysis of its functioning, the real positioning of the university and the orientation of its activities to meet the needs of students, the state, employers and other interested parties.*
- ✓ *The management of the EP demonstrates the functioning of mechanisms for the formation and regular revision of the development plan of the EP and monitoring its implementation, assessing the achievement of training goals, meeting the needs of students, employers and society, making decisions aimed at continuous improvement of the EP.*
- ✓ *The management of the EP should involve representatives of groups of interested persons, including employers, students and teaching staff in the formation of the development plan of the EP.*
- ✓ *The management of the educational institution should demonstrate the individuality and uniqueness of the development plan of the educational institution, its consistency with national development priorities and the development strategy of the educational organization.*
- ✓ *The university must demonstrate a clear definition of those responsible for business processes within the framework of the EP, the distribution of staff duties, the differentiation of functions of collegial bodies.*
- ✓ *The management of the EP ensures coordination of the activities of all persons involved in the development and management of the EP, and its continuous implementation, as well as involves all stakeholders in this process.*
- ✓ *The management of the EP should ensure the transparency of the management system, the functioning of the internal quality assurance system, including its design, management and monitoring, and the adoption of appropriate decisions.*
- ✓ *The management of the EP should carry out risk management.*
- ✓ *The management of the educational institution should ensure the participation of representatives of interested persons (employers, teaching staff, students) in the collegial management bodies of the educational program, as well as their representativeness in making decisions on the management of the educational program.*
- ✓ *The university must demonstrate innovation management within the framework of the EP, including the analysis and implementation of innovative proposals.*
- ✓ *The management of the EP should demonstrate its openness and accessibility to students, teaching staff, employers and other interested persons.*
- ✓ *The management of the EP confirms the completion of training in educational management programs.*
- ✓ *The management of the EP should strive to ensure that the progress made since the last external quality assurance procedure is taken into account when preparing for the next procedure.*

The evidentiary part

Educational programs are managed within the framework of an internal quality assurance system, which includes a Quality Assurance Policy and a description of processes in a series of internal documents of the University developed within the framework of a certified quality management system.

The EEC confirms that the educational programs submitted for accreditation 6B07309 BIM technologies in design, 7M07312 Land Cadastre and Land Management have been developed in accordance with the requirements of the State Mandatory Standard of Higher and Postgraduate Education of the Republic of Kazakhstan (SMS RK No. 604 dated 21.10.2018).

In accordance with the Development Strategy of the EP 6B07309 BIM - technologies in design, 7M07312 Land Cadastre and Land Management for 2023-2025. the revision of the content of the goals of the EP is carried out regularly at least once every 3 years, taking into account the development of science, technology, culture, economy, technology, social sphere and, accordingly, is carried out according to the results of external and internal monitoring, the results of and conditions for the implementation of educational programs, including in the process of

quality management audit.

Changes that are introduced into educational programs are carried out at the stages of correcting the content of goals, the structure of the program, designing curricula and correcting working curricula (syllabuses) of disciplines.

The goals of educational programs are presented on the university's website

<https://www.ektu.kz/educationalprograms.aspx>,
https://www.ektu.kz/departments/as_dep.aspx.
https://www.ektu.kz/departments/fnoz/eduproglis/magistracy/land_cadastre.aspx?lang=ru.

During the visit, the members of the EEC got acquainted with the Development Strategy of the EP and it was noted that it is formed on the basis of the development strategy of the School of Architecture and Construction, the School of Earth Sciences and the Strategic Development Program of the NAO "D. Serikbayev EKTU" https://www.do.ektu.kz/laws/strat_doc.asp. The main goal of this strategy is to become an international university.

EKTU has a license

<https://www.ektu.kz/files/abouttheuniversity/CertificatesLicenses/Licenziya-VKTU-im D.Serikbaeva.pdf>) and international certification of the integrated management system <https://www.ektu.kz/abouttheuniversity/qms.aspx>.

In accordance with ISO 9001:2015, ESG – 2015 standards, the university has a published Quality Policy and Quality Assurance Policy https://www.ektu.kz/files/abouttheuniversity/Politics_2020ru.pdf.

Also, all activities at the university are carried out in accordance with the Anti-Corruption Policy as per ISO 37001:2016 https://www.ektu.kz/files/abouttheuniversity/qms/PPK_NAO_EKTU_135-I-2023.pdf.

It was noted that the University implements the implementation of joint education on 11 subjects (according to the USDHE) with foreign universities and provides external and internal academic mobility of students and faculty. The University in the implementation of joint/diploma education is focused on the top universities in the world rankings, in particular, in the QS WUR rating.

The University has developed the Development Strategy of EP for 2023-2025 years, the Development Plan of EP, the objectives of EP are formed on the basis of state development programs and annual messages of the President of RK, taking into account the results of the survey of students and employers, as well as taking into account the analysis of its effectiveness.

During the interviews with faculty members, employers, students, confirming answers about the participation of the main stakeholders in the development of the OP were received. According to the results of the questionnaire survey of the teaching staff and students the following answers to the questions were received: involvement of the teaching staff in the process of making managerial and strategic decisions - very well and well assessed by 96.5% of the surveyed teaching staff.

The management of the OP regularly undergoes professional development courses, including management programs in education. Aldungarova A.K., Rakhymberdina M.Ye. have certificates.

According to the available documents the enrollment of students in academic disciplines is organized by the Office-registrar. At the same time, for organizational, methodological and consulting work with students involved support services for students and advisors.

At the meetings with students, teaching staff, employers, members of the EEC were convinced of the openness and accessibility of the EP management in solving various issues related to the development and implementation of the EP.

Analytical part

The EEC NAAR having conducted meetings, discussions and interviewing with vice-rectors, heads of structural subdivisions, students, teaching staff, representatives of employers' organizations, as well as having carried out a questionnaire survey of teaching staff and students, detailed familiarization of experts with the educational infrastructure of the university, material

and technical, information and methodological resources and necessary documents notes the following:

The university has demonstrated the development of quality assurance culture, which is carried out through the mechanisms of internal quality assessment and examination of educational programs.

The university provided information about the participation of representatives of stakeholders (employers, faculty, and students) in the collegial bodies of educational program management, as well as their representativeness in decision-making on the issues of EP management. Improvement of the EP development plan is aimed at the realization of the strategy and policy, achievement of the set goals and quality implementation of the EP. The report reflects the transparency of the processes of formation of the EP development plan and ensuring the awareness of stakeholders about the content of the EP development plan and the processes of its formation.

The implementation of the EP corresponds to the legislation of RK in the field of education, including the State Education Standards of RK. The EP is implemented in accordance with the mission of the university. The mechanisms of formation, revision, monitoring and realization of the EP development plan are defined. At the same time, the experts found that the uniqueness of accredited EPs is not always ensured.

EEC members note the presence of the risk management system in the university, however, the opinion was expressed about its improvement in terms of specifying the work on risk mitigation, including staffing, contingent formation and other issues with the indication of specific indicators, deadlines and responsible for implementation.

In addition, the members of the EEC expressed the opinion that the management of the EP did not fully demonstrate how the risk management is carried out (for example, how the risk of reduction of the contingent and the demand for the EP in the market of educational services on the EP 6B07309 BIM - technologies in design is taken into account).

Strengths/best practice in EP 6B07309 - BIM-technologies in design, 7M07312 - Land cadastre and land management:

- The EP management actively carries out professional development, including educational management programs, which is confirmed by a large list of certificates.

Recommendations of the EEC on EP 6B07309 - BIM-technologies in design:

- To revise the EP development plan in order to highlight the unique features of its implementation and to attract students from both SKR and other regions (Deadline: 01.09.2023).

- By the beginning of the 2023-2024 academic year to update the procedure of analysis and mitigation of risks associated with the design and implementation of the EP (including staffing, contingent formation, etc. with the indication of specific indicators, deadlines and responsible for implementation).

Recommendations of the EEC on EP 7M07312 – Land Cadastre and land management:

- There are no recommendations for this standard.

Conclusions of the EEC according to the criteria according to the standard "Management of the educational program" EP:

6B07309 – BIM technologies in design revealed 17 criteria, of which: 1 have a strong position, 14 – satisfactory, 2 - requires improvement.

6B07309 – BIM technologies in design, 7M07312 - Land Cadastre and land management revealed 17 criteria, of which: 1 have a strong position, 16 – satisfactory.

6.2. Information Management and Reporting Standard

- ✓ *The university should ensure the functioning of the information collection, analysis and management system based on modern information and communication technologies and software.*
- ✓ *The EP management demonstrates the systematic use of processed, adequate information to improve the*

internal quality assurance system.

- ✓ *The management of the EP demonstrates the existence of a reporting system reflecting the activities of all structural divisions and departments within the framework of the EP, including an assessment of their effectiveness.*
- ✓ *The university should determine the frequency, forms and methods of assessing the management of the EP, the activities of collegial bodies and structural units, and top management.*
- ✓ *The university must demonstrate a mechanism for ensuring the protection of information, including the identification of responsible persons for the reliability and timeliness of information analysis and data provision.*
- ✓ *The university demonstrates the involvement of students, employees and teaching staff in the processes of collecting and analyzing information, as well as making decisions based on them.*
- ✓ *The management of the EP should demonstrate the availability of communication mechanisms with students, employees and other stakeholders, including conflict resolution.*
- ✓ *The university must ensure the measurement of the degree of satisfaction of the needs of students, teaching staff and staff within the framework of the EP and demonstrate evidence of the elimination of the detected shortcomings.*
- ✓ *The university should evaluate the effectiveness and efficiency of its activities in the context of the EP.*
- ✓ *The information collected and analyzed by the university within the framework of the EP should take into account: key performance indicators; the dynamics of the contingent of students in the context of forms and types; the level of academic performance, student achievements and expulsion; satisfaction of students with the implementation of the EP and the quality of education at the university; availability of educational resources and support systems for students; employment and career growth of graduates.*
- ✓ *Students, teaching staff and staff must document their consent to the processing of personal data.*
- ✓ *The management of the EP should help to provide the necessary information in the relevant fields of sciences.*

The evidentiary part

The university has implemented information management processes using the educational portal www.ektu.kz. The university has implemented software for automated learning systems and information support systems: "The Educational portal of EKTU", "Scientific and innovative activities", "Online service for posting information on the distribution of released grants", "Pre-university training", "Integrated information complex SPORTEL", "subsystem "Choice of elective disciplines", software provision of "Entrant", etc.

The website provides information about the main activities of the university – management of educational, scientific and educational processes, provides information about structural divisions, the rector's blog, there is a representation of the university in social networks. The university's website operates in four languages. Constant work is underway on the information content of the educational portal of EKSTU.

Information management processes are carried out in accordance with the standard 7 R of the NAO "EKTU" 127 Manual for the internal Quality Assurance System (dated 11/23/2022), as well as the DP of the NAO "EKTU" 020 Educational Portal (dated 12/06/2022). These data are confirmed in the regulatory documents submitted for consideration.

The university has developed and posted the following GNI for the authorized user to prevent corruption offenses and negative consequences on conflict resolution issues:

AS NAO "EKTU" 064 Anti-Corruption Standard (from 01.02.2021), PR NAO "EKTU" 044 Rules for Conflict of interest resolution (from 14.01.2023), To NAO "EKTU" 059 Code of Academic Integrity of Students (from 09.03.2021), PR NAO "EKTU" 065 Internal Regulations for students (from 29.10.2021 G.), PR NAO "EKTU" 084 Rules of internal Labor Regulations (dated 01/25/2021), P NAO "EKTU" 066 Regulations on the application of disciplinary measures and suspension from work (dated 02/24/2021).

In the NAO "EKTU" a student has the right to file a complaint to resolve certain problems that arise. Booths for suggestions and comments have been installed at the university, help lines and the rector's blog are functioning.

Within the framework of accredited educational institutions, a system of regular reporting is carried out, including an assessment of the effectiveness and efficiency of schools' activities. The university has a unique data analysis and visualization system "E-Monitoring", in which visual representation of data in various areas is performed online. Management issues of accredited educational institutions are considered at meetings of the relevant school councils, as well as Academic Councils of the university.

The EEC also noted that the Commission for Quality Assurance at Schools /Faculties annually evaluates and develops recommendations for improving the quality of the EP in the relevant direction, decides to terminate recruitment for a specific EP and recommends that the Academic Council of the University exclude this EP from the Register of educational programs implemented by organizations of higher and (or) postgraduate education of MSaHE. This decision is approved by the Highest Collegial Body of the University – the Academic Council, based on the results of monitoring the effectiveness of the EP on the E-Monitoring platform.

The university annually conducts several types of questionnaires to assess the quality of classes, disciplines, educational programs, the formation of competencies, surveys of first-year students, teachers, graduates and employers. The information on the results of the surveys is considered at the Coordination Councils for ISM. Solutions are presented on the portal and posted on the website <https://www.ektu.kz/abouttheuniversity/qms/svok/poll.aspx> in open access for all interested parties. Corrective actions are taken if necessary.

The collegial and advisory bodies include management, ATD, representatives of teaching staff, students. For example, the lists of members of the Academic and Academic Councils are presented on the website. On the part of the SR and OK Management, internal audits are conducted on all processes implemented in the structural divisions of the university

Access to the information and educational portal of NAO "EKTU" is carried out via the Internet and a local network with authorized access.

The university has developed internal documents defining the properties and characteristics of the information collected, the procedure and provision of information protection, responsible persons.

During the analysis of the presented information, it was confirmed that there is access to electronic information resources: Web of Science of Clarivate analytics; ScienceDirect and Scopus of Elsevier; IPRbooks (electronic library system) of RMEB, KazNEB (<https://www.ektu.kz/researchlibrary/remoterresources.aspx>), SpringerLink platform, database of Scientific research Protocols (Springer Protocols; electronic library "Epigraph"; unified search box EBSCO Discovery Service (EDS); Media ENVOY. Reference books.

Analytical part

The University has demonstrated the availability of a system for collecting, analyzing and managing information based on the use of modern information and communication technologies and software tools and that it uses a variety of methods for collecting and analyzing information in the context of accredited EP. The information offered for collection and analysis within the framework of the EP takes into account key performance indicators, the dynamics of the contingent of students in the context of forms and types, the level of academic performance, student achievements and expulsion, student satisfaction with the implementation of the EP and the quality of education at the university, the availability of educational resources and support systems for students.

The management of the university demonstrates its openness and accessibility to students, teaching staff, employers: reception hours for personal issues are determined, meetings with the rector are held on a systematic basis.

The university has booths for suggestions and comments, "trust boxes", the rector's blog.

The university has developed regulatory documents on the prevention of corruption offenses and negative consequences on conflict resolution issues: AS NAO "EKTU" 064 Anti-Corruption Standard (01.02.2021), PR NAO "EKTU" 044 Rules for resolving conflicts of interest (14.01.2023), To NAO "EKTU" 059 Code of Academic Integrity of Students (09.03.2021) and others.

Library and bibliographic processes are carried out on the basis of the automated library system "Irbis 64+", the electronic catalog system functions. In order to ensure the book circulation process, a self-developed system with RFID marking of each printed book has been introduced.

The main part of the information is available through the educational portal developed at the NAO "EKTU".

Strengths/best practice on EP 6B07309 – BIM technologies in design, 7M07312 - Land Cadastre and Land Management

- According to this standard, EP has no strengths.

EEC recommendations on EP 6B07309 – BIM technologies in design, 7M07312 – Land Cadastre and Land management:

- There are no recommendations for this standard.

The conclusions of the EEC according to the criteria according to the standard "Information Management and reporting" EP:

6B07309 – BIM technologies in design, 7M07312 - Land Cadastre and land management revealed 17 criteria, of which: 17 – have a satisfactory position.

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

- ✓ *The university must demonstrate the existence of a documented procedure for the development of an EP and its approval at the institutional level.*
- ✓ *The university must demonstrate the compliance of the developed EP with the established goals and planned learning outcomes.*
- ✓ *The management of the EP should determine the impact of disciplines and professional practices on the formation of learning outcomes.*
- ✓ *The university demonstrates the existence of a graduate model of an EP describing learning outcomes and personal qualities.*
- ✓ *The qualification assigned upon completion of the EP must be clearly defined, explained and correspond to a certain level of the NSC, QF-EHEA.*
- ✓ *The management of the EP should demonstrate the modular structure of the program based on ECTS, ensure that the structure of the content of the EP meets the goals set with a focus on achieving the planned learning outcomes for each graduate.*
- ✓ *The management of the EP should ensure that the content of academic disciplines and learning outcomes correspond to each other and the level of study (bachelor's, master's, doctoral studies).*
- ✓ *The management of the EP must demonstrate the conduct of external examinations of the EP.*
- ✓ *The management of the EP must provide evidence of the participation of students, teaching staff and other stakeholders in the development and quality assurance of the EP.*
- ✓ *The management of the EP should demonstrate the uniqueness of the educational program, its positioning in the educational market (regional/national/ international). An important factor is the possibility of preparing students for professional certification.*
- ✓ *An important factor is the presence of joint(s) and/or double-degree EP with foreign universities*

The evidentiary part

The development and approval of educational programs at the university is carried out in accordance with the regulations of normative legal acts in the field of higher and postgraduate education, as well as documentation developed by the university to ensure the implementation of the Strategic Development Program of the university.

The University has developed the NAO "EKTU" 030 Regulation "Design of the educational program" (dated 12/16/2022), which regulates the procedure for the development of the EP and their approval and NAO "EKTU" 050 Regulation on the head of the educational program (dated 11.01.2023), where it is noted that the main purpose of the head of the EP is the organization of design activities and the implementation of the educational program, ensuring and quality control of fundamental and professional training of graduates.

The University independently develops and approves the Bachelor's and Master's degree programs based on the SES in accordance with the National Qualifications Framework, professional standards and agreed with the Dublin Descriptors, the European Qualifications Framework and the Classifier of Training areas with Higher and Postgraduate Education.

Students of EP 6B07309 BIM – technologies in design, 7M07312 Land Cadastre and Land

Management undergo the following types of practices: educational, industrial, pre-graduate practice for bachelor's degree and pedagogical, research practice for master's degree. The main

objectives of the practices for EP 6B07309 are to acquire the necessary practical skills for applying theoretical knowledge in the field of information modeling of buildings and structures in accordance with the terms of reference using specialized software products based on BIM technologies. Pedagogical practice is carried out within the framework of the general concept of master's training, which involves the formation of professional and communicative skills related to pedagogical activity. The research practice of the undergraduate is conducted in order to familiarize himself with the latest theoretical, methodological and technological achievements of domestic and foreign science, with modern methods of scientific research, processing and interpretation of experimental data.

Bases of practice for EP 6B07309 - BIM - technologies in design are "Ulbatehcenter" LLP, TsKiTT in the field of BIM-design. Bases of practices on EP 7M07312 - Land cadastre and land management are leading specialized enterprises of the city, region, republic, such as SE "Department of land relations of East Kazakhstan region", Branch of NAO "SE "Government for citizens" on East Kazakhstan region, SE "Department of land relations, architecture and town planning of Ust-Kamenogorsk city", SE "Department of land relations of East Kazakhstan region".

The main IRD, determining carrying out of practices, regulating educational activity of students on practice are P NAO "EKTU" 027 Regulation on practice P NAO "EKTU" (23.09.2021), P NAO "EKTU" 031 Regulation on carrying out of educational and industrial practice in field conditions on the basis of summer expeditionary campus "Prostor" (from 18.11.2020) and through program of professional practice, which is developed specifically for this EP. These practices were developed with employers, which was confirmed at the interview.

The defense of the practice report is carried out at the university before the formed commission within a strictly set time frame. Responsibility for the organization and conduct of the internship is borne by the head of the EP and the Career Center of the University.

Information about the internship on EP 6B07309 in the Competence Center of the University, as well as on EP 7M07312 - Land Cadastre and Land Management were presented to experts during the visit of the EEC.

The management of accredited PLOS ensures the availability of developed models of the PLO graduate describing the learning outcomes and personal qualities. They are indicated when designing an educational program in the form of a specialist's competence map, which includes the key competencies being formed and learning outcomes. The university has a graduate model for

EP	7M07305	Construction
https://www.ektu.kz/departments/as_dep/eduproglis/magistracy/building.aspx .	7M07312 - Land cadastre and land management	https://www.ektu.kz/departments/fnoz/eduproglis/magistracy/land_cadastre.aspx?lang=ru ,

developed on the basis of SSO, NRK, ORC.

Qualification characteristics are presented on the university's website <https://www.ektu.kz/educationalprograms/educationalprogramdetail.aspx?Code=5941>. The qualifications obtained by graduates upon completion of EP 6B07309 - BIM technologies in design, EP 7M0312 - Land Cadastre and Land Management are clearly defined in the passport of the EP, explained to students and corresponds to the level of the NRK 6 for bachelor's degree and the level of the NRK 7 for master's degree. The qualification characteristic of a graduate includes the field, object, types, functions of professional activity.

The guide to accredited EP provides the content of academic disciplines and learning outcomes to the level of learning.

Specialists of leading enterprises from the construction industry take part in the development of the EP. The wishes and recommendations of the heads of the leading enterprises of the republic and the city are documented. The list of enterprises with which accredited EP has been approved is presented in the form of an EP approval sheet.

The members of the EEC NAAR note that the technology of modular training is used in

the development of the EP: modules are formed from blocks of disciplines grouped from cycles of basic (BD) and profile disciplines (PD) both by mandatory and elective components, indicating the complexity of each academic discipline in credits and academic hours.

The content of the studied disciplines on accredited EP is presented in the section "Modular curriculum" on the university's website and meets the international requirements for the training of highly qualified specialists. The results of training in each discipline are displayed in the Working Curriculum (Syllabus). On the basis of studying a certain set of disciplines and/or passing appropriate types of practices, learning outcomes and key competencies are formed at all levels of study – bachelor's, master's, doctoral studies.

The personal characteristics of students, including the peculiarities of information perception, are taken into account in working curricula (Syllabuses). IUP of students are formed in accordance with the Rules of the organization of the educational process according to the credit technology of training, approved. By Order of the Ministry of Education and Science of the Republic of Kazakhstan dated 20.04.2011 No. 152 (with 48 amendments and additions dated 23.09.2022 No. 79) and AP NAO "EKTU" 029 Academic Policy (dated 30.12.2022) https://www.ektu.kz/files/education/MethodologicalSupport/Academ_polotika_.pd

Students have the opportunity to participate in the formation of their educational trajectory and influence the quality of the educational process. Students in their personal account form their IUP for the current year on the basis of RUP (Syllabus) and QED, which they can familiarize themselves with on the Educational portal.

Since the 2019-2020 academic year, students have had the opportunity to choose Minor disciplines from the catalog of additional educational programs <https://www.ektu.kz/minors/minorscatalog.aspx>. However, due to the lack of a contingent in the 1st and 2nd courses, it is currently impossible to confirm the choice of Minor.

The goals and objectives of EP 6B07309 are the formation of students' competencies that ensure their professional activity in the field of construction, and the training of specialists in the industries reflected in the State Program for 2022-2023.

The goals and objectives of EP 7M07312 are to create an educational environment favorable for the professional formation and intellectual development of a specialist who is able to successfully conduct research and development in the field of land management and cadastre, to demonstrate functional literacy and competitiveness in professional, scientific, pedagogical activities.

The content and results of the EP training can be found on the university's website (<https://www.ektu.kz/educationalprograms.aspx>).

Analytical part

Analyzing the standard "Development and approval of educational programs", the members of the EEC note that the design and updating of the EP is carried out by the Academic Committee; then the EP is considered at a meeting of the School Quality Assurance Commission and, after approval by the Academic Council, the OP is approved at a meeting of the Academic Council of the University.

During an interview with the management of the EP, it was not able to demonstrate the uniqueness of EP 6B07309, which, according to experts, eventually led to a lack of recruitment for EP and independent EP became only a trajectory in EP Construction. This opinion was also confirmed by the analysis of the submitted documents.

When interviewing managers, teaching staff of the EP and when studying the documentation, it was found that there was an insufficient level of training of students for professional certification in the context of the EP. So, according to EP 6B07309 BIM technology in design, modules and disciplines are designed, the study of which makes it possible for students to obtain professional competencies, however, conditions for passing professional certification at the university have not been created, and also, specific examples of students passing professional certification in the field of BIM technologies in design are not presented.

The members of the EEC note that there is no process of preparation for professional

certification in the field of land cadastre and land management, as well as in the field of currently widespread information technologies in the PLO of the magistracy 7M07312.

As a result of the analysis of the reporting data and the results of the visit of the VEC, it was not established whether there was a discussion, analysis of the possibilities and advantages of implementing joint EP and double-degree EP with foreign universities (For example, a memorandum with the State University on Land Management (RF, Moscow)). The demonstrated cooperation agreements and the stated intentions have a general indefinite character.

Strengths/best practice on EP 6B07309 – BIM technologies in design, 7M07312 - Land Cadastre and Land Management

- According to this standard, EP has no strengths.

EEC recommendations for EP 7M07312 – Land Cadastre and land management:

- the management of the EP to determine the types / areas of professional certification (strictly within the framework of the EP or information technology) for which students can be trained and directly pass tests to obtain certificates (Deadline: 30.05.2024)

EEC recommendations for EP 6B07309 – BIM technologies in design:

- develop a plan to expand the list of professional certifications, including in the field of information technology, and also consider the possibility of organizing the certification process directly at the university. (Deadline:01.09.2024)

- Consider the possibility of organizing a double-degree EP together with universities of the Russian Federation or other leading foreign universities (Deadline: 01.09.2023);

- To hold working meetings, round tables and other events in order to determine the uniqueness of the EP and its positioning in the labor market (Deadline: 01.09.2023);

Conclusions of the EEC according to the criteria according to the standard "Development and approval of the educational program" EP:

"6B07309 BIM technologies in design" revealed 12 criteria, of which: 9 - have a satisfactory position, 3- requires improvement.

"7M07312 - Land cadastre and land management" revealed 12 criteria, of which: 11 have a satisfactory position, 1 requires improvement.

6.4. The standard "Continuous monitoring and periodic evaluation of educational programs"

✓ *The university should ensure the revision of the structure and content of the EP, taking into account changes in the labor market, the requirements of employers and the social request of society.*

✓ *The university must demonstrate the existence of a documented procedure for monitoring and periodic evaluation to achieve the goal of the EP and continuous improvement of the EP.*

✓ *Monitoring and periodic evaluation of the EP should consider:*

• *the content of the program in the context of the latest achievements of science and technology in a particular discipline;*

• *changes in the needs of society and the professional environment;*

• *workload, academic performance and graduation of students;*

• *effectiveness of student assessment procedures;*

• *needs and degree of satisfaction of students;*

• *compliance of the educational environment and the activities of support services with the goals of the*

EP.

✓ *The management of the EP should publish information about the changes in the EP, inform interested parties about any planned or undertaken actions within the framework of the EP.*

✓ *Support services should identify the needs of various groups of students and the degree of their satisfaction with the organization of training, teaching, evaluation, and mastering of the EP as a whole.*

Evidentiary part

Organization and control over the issues of continuous monitoring and periodic evaluation of accredited EP at the University, research on demand and prestige of the University EP in the

East Kazakhstan region is carried out by UAD, Career Center.

According to the requirements of employers, strategic partners, it is periodically required to adjust the educational program to ensure its competitiveness and demand in the market of educational services. In order to study the needs and opinions about the quality of training of graduates, a survey of representatives of all stakeholders (students and employers) is conducted.

The University has developed and documented procedures for monitoring, evaluation and updating of the EP: R NAO "EKTU" 127 Manual on the internal quality assurance system (dated 23.11.2022); DP NAO "EKTU" 008 Internal monitoring of the quality of the educational process (dated 28.12.2022); DP NAO "EKTU" 006 Internal audits (dated 20.11.2022).

Heads of EP 6B07309 BIM - technologies in design, 7M07312 - Land cadastre and land management monitor, are responsible for the revision and updating of the EP, for the development of the EP development strategy according to NAO "EKTU" 050 Provision on the head of the educational program (from 11.01.2023) with the involvement of employers (Kazmintech Engineering LLP, VK Development group LLP, ANTProject LLP, Land Cadastre Department of the branch of NAO "State Corporation "Government for Citizens" in EKR, VK branch of RSE "Gosgradkadastr") and students, taking into account the content of the program in the context of the latest achievements of science and technology in a particular discipline; changes in the needs of society and professional environment; workload, performance, graduation, needs and degree of satisfaction of students; compliance of the educational environment and the activities of the services on

Based on the results of the analysis, changes are made to the structure and content of the OP, QED. For example, disciplines such as "Fundamentals of BIM-technologies in design", "Finite element analysis of buildings using Robot and SCAD Office", "Information modeling of reinforced concrete and metal structures Tekla", etc. are added to the EP.

All information about the EP is available on the official website <https://www.ektu.kz/> in the tab "Education" - "Educational programs of higher and postgraduate education" (<https://www.ektu.kz/educationalprograms.aspx>). Also interested persons can get acquainted with the Catalog of additional educational programs (Minor) <https://www.ektu.kz/minors/minorscatalog.aspx>.

Within the framework of accredited EPs the monitoring of the progression of the learner is carried out using the tools of the Educational Portal. All processes of evaluation of students, including appeal, are described in the following documented procedures: AP NAO "EKTU" 029 Academic Policy (dated 30.12.2022), DP NAO "EKTU" 024 Intermediate, final control and evaluation of knowledge, students (dated 19. 12.2022), NAO "EKTU" 057 Regulations on the organization and conduct of examinations in written form (from 01.12.2022), DP NAO "EKTU" 025 Final attestation of students (from 10.03.2023).

The needs and satisfaction of students in EP 6B07309 BIM - technologies in design", EP 7M07312 - Land cadastre and land management are analyzed in the course of various surveys conducted at the university in accordance with DP NAO "EKTU" 007 Collection and analysis of information on customer satisfaction (from 20.11.2022).

When discrepancies are identified, corrective actions involve changes in the training documentation. Evidence was provided to EEC members to provide recommendations for changes to the content of the EP.

Taking into account the needs of different groups of students and the degree of their satisfaction with the organization of learning, teaching, assessment is carried out according to the results of monitoring the conditions for the implementation of educational programs, including in the process of internal and external audits of faculties/schools on IMS.

Analytical part

EEC notes that the university ensures the revision of the content and structure of educational programs with the participation of employers. This was confirmed during the interview and analysis of the submitted documents.

In order to obtain an objective assessment in the learning process, teaching staff use various

methods of controlling the knowledge of trainees, while the fact of introducing innovative methods of assessing students was not confirmed during the interviews.

The University has created and operates academic support services for students: registrar's office, service of editors. Systematic work is carried out in relation to the creation of the most favorable conditions for the quality provision of educational services, social support of students, creating the necessary conditions for their personal development and education.

The University informs all stakeholders using various channels: website, mailings, etc., but despite the information presented in the self-evaluation report, this information was not confirmed during interviews with stakeholders. And the information presented on the website does not indicate what changes were made in the EP (a new version of the EP is presented).

Strengths/best practice on EP 6B07309 – BIM technologies in design, 7M07312 - Land Cadastre and Land Management

- According to this standard, EP has no strengths.

Recommendations of the EEC on EP:

- 6B07309 – BIM technologies in design

- The management of the EP is recommended to develop a procedure for receiving feedback on the results of informing stakeholders about all planned or undertaken actions in relation to the EP (Deadline: 01.09.2024).

- 7M07312 – Land Cadastre and Land Management

- There are no recommendations for this standard.

The conclusions of the EEC according to the criteria according to the standard "Continuous monitoring and periodic evaluation of the EP:

"6B07309 BIM technologies in design" revealed 10 criteria, of which: 9 have a satisfactory position, 1 – suggests improvement.

"7M07312- Land cadastre and land management" revealed 10 criteria, of which: 10 have a satisfactory position.

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

- ✓ *The management of the EP should ensure respect and attention to different groups of students and their needs, providing them with flexible learning paths.*
- ✓ *The management of the EP should provide teaching based on modern achievements of world science and practice in the field of training, the use of various modern teaching methods and evaluation of learning outcomes that ensure the achievement of the goals of the EP, including competencies, skills to perform scientific work at the required level.*
- ✓ *The management of the EP should determine the mechanisms for distributing the educational load of students between theory and practice within the framework of the EP, ensuring the development of the content and achievement of the goals of the EP by each graduate.*
- ✓ *An important factor is the availability of own research in the field of teaching methods of the disciplines of the EP.*
- ✓ *The university must ensure that the procedures for evaluating learning outcomes correspond to the planned results and goals of the EP.*
- ✓ *The university must ensure the consistency, transparency and objectivity of the mechanism for evaluating the results of the EP training, the publication of criteria and evaluation methods in advance.*
- ✓ *Evaluators should be familiar with modern methods of evaluating learning outcomes and regularly improve their skills in this area.*
- ✓ *The management of the EP should demonstrate the existence of a feedback system for the use of various teaching methods and evaluation of learning outcomes.*
- ✓ *The management of the EP should demonstrate support for the autonomy of students with simultaneous guidance and assistance from the teacher.*
- ✓ *The management of the EP must demonstrate the existence of a procedure for responding to complaints from students.*

The evidentiary part

The management of the EP provides equal opportunities for students, regardless of the language of instruction, to form an individual educational trajectory aimed at the formation of professional competencies.

The educational process is conducted in the state and Russian, English languages. Students receive information about the possibilities of forming an individual educational trajectory, as well as assistance in its implementation through the university's website, as well as with the help of an adviser.

The result of registration of students is the formation of an individual educational plan (IEP), which reflects the academic disciplines (with an indication of the number of credits) as a mandatory component and a component of choice (elective disciplines). In NAO "EKTU" there is a system of electronic registration of students for elective courses, as well as an electronic system of registration of students' choice and the formation of IEP (<https://www.do.ektu.kz/doektu/?lang=ru>).

In order to implement student-centered learning and teaching, the management of EP BIM - technologies in design, 7M07312 - Land Cadastre and Land Management provides timely information to students about the educational program <https://www.ektu.kz/educationalprograms/educationalprogramdetail.aspx?Code=5941> <https://www.ektu.kz/educationalprograms.aspx>, used criteria and procedures for assessing learning outcomes according to the GND: DP NAO "EKTU" 024 Intermediate, final control and evaluation of students' knowledge (from 19.12.2022), P NAO "EKTU" 057 Regulations on the organization and conduct of examinations in written form (from 01.12.2022), DP NAO "EKTU" 025 Final attestation of students (from 30.06.2021).

Teaching staff use elements of innovative educational technologies and modern teaching methods (for example, video lectures), project-organized learning technologies are being actively introduced.

The educational process includes mechanisms for distributing the educational load of students between theory and practice within the framework of combining traditional learning with distance and online methods. Online courses have been developed in the disciplines of accredited educational programs: "Information modeling of buildings using Revit"; "Engineering computer graphics".

Teachers have established regular feedback with students, contributing to the effective assessment of innovative methods and forms of teaching and their adjustment. A classic feedback tool for the study of the quality of teaching is a questionnaire of students: 1) Questionnaire "Teacher through the eyes of students" (results by link <https://www.ektu.kz/abouttheuniversity/qms/svok/poll.aspx>); 2) Feedback questionnaire on the discipline.

According to the results of the survey of students, new special disciplines on Revit and BIM technologies were introduced.

Assessment of learning outcomes is regulated by the END DP NAO "EKTU" 024 Intermediate, final control and assessment of students' knowledge (from 19.12.2022); DP NAO "EKTU" 025 Final attestation of students (from 30.06.2021).

The following types of control of students' knowledge are distinguished: current and final control. Transparency of the knowledge assessment procedure is provided by placing current grades, interim and final results in electronic journals on the Educational Portal, video-fixation of exams, collective decision-making on the awarding of qualifications. Thus, each learner can see the status of his/her academic achievements and discuss them with the edvisors, faculty and management of faculties/schools.

In the educational process at the teaching staff widely practiced the requirement of students to perform practical classes, IWST and IWS in the form of presentations with a form of defense of work - a report with a speech, which gives the opportunity to encourage students to express themselves and individuality.

Teachers of EP 6B07309, EP 7M07312 provide academic support for students who do not cope with the academic requirements in the form of additional counseling.

To carry out the appeal procedure in the final control of knowledge of students for the period of examination sessions created an appeal committee. The university has an established system of response to complaints and recommendations from students and parents.

The forms of feedback are: 1) the rector's blog located on the university website (<https://www.ektu.kz/blogs/rector/questionsList.aspx>); 2) the box for suggestions and appeals https://www.ektu.kz/divisions/marketpr_center/suggestionbox.aspx (information with QR code is posted around the university); 3) a booth for video, audio and written appeals (Serikbaev 19, Main building, first floor); 4) personal pages of departments on the website <https://www.ektu.kz/> with contact information (<https://www.ektu.kz/alldivisions.aspx>).

Students have free access to information resources and library funds, to educational and scientific literature, information databases, including international data sources placed in electronic libraries.

Analytical part

The analysis of the standard "Student-centered learning, teaching and learning assessment" has shown that modern information and pedagogical teaching technologies are used for accredited EPs, clear criteria and objective consistent procedures of learning assessment are used, which comply with the established rules and are aimed at achieving the planned learning outcomes and objectives of the EP.

EEC members note that the university has developed a mechanism of response of EP management to students' complaints.

The teaching staff of the department conducts local own research in the field of teaching methodology. At the same time, the members of the EEC note that in the educational process are not sufficiently used their own research faculty in the field of teaching methods of academic disciplines of accredited subjects, although there are some.

The questionnaire survey, conducted during the visit of the NAAR CEC, showed that students

express full and partial satisfaction:

- teaching methods in general - 75.7 per cent;
- the level of teaching quality - 83.1%;

Strengths/best practices of EP "6B07309 - BIM-technologies in design, 7M07312 - Land cadastre and land management".

- The EP has no strengths according to this standard.

EEC recommendations for EP 6B07309 - BIM-technologies in design, 7M07312 - Land cadastre and land management:

- The EP management should prepare a plan for the development and implementation in the educational process of own research of the teaching staff in the field of teaching methodology of academic disciplines of accredited OPs (Deadline: 01.09.2023).

EEC conclusions on the criteria for the standard "Student-centred learning, teaching and learning assessment" EP:

6B07309 - BIM-technologies in design, 7M07312 - Land cadastre and land management disclosed 10 criteria, of which: 9 - have a satisfactory position, 1- requires improvement.

6.6. The "Students" Standard

✓ *The university must demonstrate the policy of forming a contingent of students and ensure transparency, publication of procedures regulating the life cycle of students (from admission to completion).*

✓ *The management of the EP should provide for special adaptation and support programs for newly enrolled and foreign students.*

The university must demonstrate compliance of its actions with the Lisbon Recognition Convention, including the existence and application of a mechanism for recognizing the results of academic mobility of students, as well as

the results of additional, formal and non-formal education. The university should provide opportunities for external and internal academic mobility of students, as well as assist them in obtaining external grants for training.

- ✓ *The university should encourage students to self-education and development outside the main program (extracurricular activities).*
- ✓ *An important factor is the availability of a support mechanism for gifted students.*
- ✓ *The university should demonstrate cooperation with other educational organizations and national centers of the "European Network of National Information Centers for Academic Recognition and Mobility/National Academic Recognition Information Centers" ENIC/NARIC in order to ensure comparable recognition of qualifications.*
- ✓ *The university should provide students with internship places; demonstrate the procedure for facilitating the employment of graduates, maintaining communication with them.*
- ✓ *The university must demonstrate the procedure for issuing graduates with documents confirming their qualifications, including the achieved learning outcomes.*
- ✓ *The management of the EP should demonstrate that graduates of the program have skills that are in demand in the labor market and that these skills are really relevant.*
- ✓ *The management of the EP should demonstrate the existence of a mechanism for monitoring the employment and professional activities of graduates.*
- ✓ *An important factor is the existence of an active alumni association/association.*

Evidentiary part

The EP management demonstrates the policy of forming the contingent of EP students from admission to graduation and provides transparency of its procedures.

Systematic career guidance work is carried out. For students of secondary general and vocational education institutions, the university annually holds the Olympiad "Zhas Talap KZ", the winners of which become the winners of the grant of the Rector of NAO D. Serikbayev EKTU (<https://www.ektu.kz/newsevents/zhastalap2023.aspx?lang=en>)

The formation of the student contingent is carried out at the expense of state educational grants and through tuition fees at the expense of citizens' own funds and other sources.

The procedures regulating the life cycle of students (from admission to completion) are presented by the following GNI: PR NAO "VKTU" 051 Admission rules for students enrolled in educational programs of higher and postgraduate education (Protocol No. 6 of 26.09.2022, <https://www.ektu.kz/files/corporategovernance/doc/pravila-priema-2021-rus.pdf>), DP NAO "EKTU" 013 Bachelor's degree preparation (from 06.03.2023), DP NAO "EKTU" 014 Preparation of masters (from 04.04.2023), DP NAO "EKTU" 015-I-2021 Preparation of Doctors of Philosophy (PhD) (from 11.04.2023), PR NAO "EKTU" 126-I-2022 Postdoctoral program (from 06.05.2022).

The members of the EEC confirm that the policy of forming a contingent of students is transparent, and the procedures governing the life cycle of training are approved and presented on the university's website.

Information stands and social networks are used to inform applicants. On the official Internet resource of the University (<https://www.ektu.kz/>) they can get acquainted with the conditions of further admission to the university, the specifics of the programs, and can also get information about the specialties of the university. Information about the rules and conditions of admission to bachelor's, master's, doctoral studies is available on the website of the EKTU in the section "Entrant" <https://www.ektu.kz/enrollee.aspx>.

To adapt the 1st year students, meetings are held with the deans of schools, heads of EP, advisors. Guided tours of the university are organized: in the laboratory, DSP, museum, Registrar office and library. <https://www.instagram.com/p/CmrJopnK-ba/?igshid=OTJINzQ0NWM%3D>. Those enrolled in the 1st year of bachelor's and master's degree programs are provided with a guidebook, an orientation week is held for them in order to familiarize themselves with educational and methodological documentation. Catalogs of elective disciplines on educational programs are also offered. Career guidance and the formation of a contingent of students is carried out on the basis of the annual work plan of the School of Architecture and Construction, the School of Earth Sciences and the University.

<https://www.instagram.com/p/ClgNd8pqrR3/?igshid=OTJINzQ0NWM%3D,%20https://www.instagram.com/p/CnzHT6aKy-1/?igshid=YmMyMTA2M2Y=>.

The annual survey of first-year students reveals the problems of adaptation of first-year students at the university (<https://www.ektu.kz/files/qms/polls/2022/Anketapervokursnikov2022.pdf>). The university practices a week of immersion in languages and the presentation of clubs and circles functioning at the Faculty of Humanities Education https://www.ektu.kz/departments/hum_ed/sub_departments/kz_ru_lang.aspx.

The Foundation faculty provides training at the university, the purpose of which is to prepare students of the foreign Kazakh diaspora and foreign citizens for admission to the university, to help them adapt and develop academic learning skills. According to the results of the pre-university Training Program, the faculty / schools of the NAO "EKTU" accept students for further study on bachelor's degree programs. The support of international students is provided by the Department for International Cooperation.

The University approved AP NAO "EKTU" 029 Academic Policy (dated 12/30/2022), DP NAO "EKTU" 023 Academic mobility (dated 20.11. 2020), P NAO "EKTU" 129 Regulations on the procedure for recognizing the results of non-formal education (dated 11/12/2022), which prescribe the grounds for recognizing previous results training.

AP NAO "EKTU" 029 Academic Policy (dated 30.12.2022) prescribes the procedure for the recognition of learning outcomes obtained by students through non-formal education, as well as the recognition of learning outcomes mastered during external/internal academic mobility. The university recognizes prior learning: both higher education and vocational training. These applicants may pursue higher education in a shortened programme (3 years, 2 years).

External and internal academic mobility is described in the DP of the NAO "EKTU" 023 Academic Mobility (dated 20.11.2020). All students are given equal opportunities and access to participate in mobility programs: The Office for International Cooperation introduces students to possible programs (<https://www.ektu.kz/divisions/interndep.aspx>), announces a competition for the selection of candidates for participation in the Academic Mobility program, conducts an open selection of applicants (English language proficiency level). Academic mobility of students is mainly provided through exchange programs Erasmus Mundus, Erasmus Mundus Partnership and others.

The university students are provided with a large number of options for extracurricular development.

The military department of the university trains reserve officers in fourteen (2021-2022 academic years) military specialities, and the number of students increases annually.

Support of talented young people is one of the important priorities in the activities of the University. For the development of artistic and creative abilities, activation of cognitive activity and spiritual and moral potential of student youth of the University the Department of Social and Cultural Activities and Youth Policy was established.

When entering the university, all first-year students undergo an entrance test to determine the level of foreign language proficiency, and depending on the results of this test, the student gets into the academic group corresponding to his/her level. Thus, the university realises a step-by-step study of a foreign language. Benefits and discounts on tuition fees for different categories of students are approved at the beginning of the academic year according to the END Regulations of NAO "EKTU" 136 on measures of social support for students (from 22.06.2022).

For EP 7M07312 Land Cadastre and Land Management there are currently 5 agreements on mutual cooperation of NAO "EKTU" on academic mobility programmes with universities.

The Department of Development Strategy and Quality Assurance, as well as commissions for quality assurance of Schools/Faculties annually conduct surveys of students regarding their satisfaction with the places of practice ("University in the eyes of graduates", "Evaluation of the educational programme").

Employers are involved in the process of employment of graduates by participating in the events "Career Day", "Specialist Fair", "Graduate Fair", "Job Fair". Graduate students compile resumes for the "Graduate Resume" collection and post resumes in their "Personal Profile" which can be accessed by employers for viewing (<https://www.ektu.kz/employment/resume2022.aspx>). In addition, graduates register and leave CVs on the Head Hunter page <https://astana.hh.kz/1> and successfully use a quality database of vacancies and modern services for job search in Kazakhstan. The university also has online counsellors for employment, working off the state educational grant and internships.

Statistics on the employment of graduates is reflected in the subsystem Employment of the educational portal of the university in the context of EPs and groups (<https://www.do.ektu.kz/Protected/HReports/BasePractic/Employeeed.asp>). For EP 7M07312 - Land Cadastre and Land Management the employment rate of graduates is 100%.

After graduating from the Bachelor's programme graduates can continue their studies at 36 Master's programmes and 9 Doctoral programmes.

The Altyn Besik Alumni Association has been functioning at the University since June 2003. <https://www.ektu.kz/alumniassociation.aspx?lang=ru>.

Analytical part

Analysing the standard "Students" members of the EEC came to the conclusion that the university has demonstrated the policy of forming the contingent of students and transparency of its procedures, compliance of its actions with the Lisbon Convention on Recognition, however, the contingent of students for BIM technologies in design at the junior courses is absent, which indicates the low demand for applicants for this programme.

The EP management has demonstrated the implementation of special adaptation and support programmes for foreign students, actively stimulates students to self-education.

The University cooperates with other educational organisations on academic mobility, provides students with places of practice and promotes employment of graduates. At the same time, the supporting documents presented in the self-assessment report and obtained additionally during the visit of the EEC indicate an insufficient level of participation of the students of accredited OPs in the internal and/or external mobility programmes for EP 6B07309 - BIM-technologies in design.

According to the results of the questionnaire, students express full satisfaction:

- Relations between student and teacher-78,5%;
- The quality of educational programmes in EP-81,9%;

When analysing the website and during interviews, EEC members noted that the information on the activities of the alumni association is not up-to-date (the last update is dated 2021), which indicates either their low activity or a formal approach to the organisation of its work. However, members of the association can have a significant positive impact on the updating of EPs, as well as on attracting applicants to accredited EPs.

Strengths/best practices of EP "6B07309 - BIM-technologies in design, 7M07312 - Land cadastre and land management".

- The university has developed and tested an adaptive procedure of contingent formation depending on the needs of the labour market.

- The University has developed and implemented in the educational process a special adaptation programme "Foundation" for first-year students, which allows accelerating the process of their adaptation to university life.

EEC recommendations for EP 6B07309 - BIM-technologies in design, 7M07312 - Land cadastre and land management:

- activate the work of the Alumni Association by including its members in the collegial bodies for discussion and adjustment of the EP (Deadline: 01.09.2023)

- update the section of the University website in terms of coverage of the Alumni Association activities, e.g. information (photo, video, digest) on participation of its members in collegial bodies, career guidance events, etc. (Deadline 01.01.2024)

Additional EEC recommendations for EP 6B07309 - BIM-technologies in design:

- The EP management to develop a plan to enable external and internal academic mobility of students and to assist them in obtaining external grants for training (Deadline: 01.09.2023);

EEC conclusions on the criteria for the standard "Learners" EP:

"6B07309 - BIM - technologies in design" 12 criteria are disclosed, of which: 2 have a strong position, 8 have a satisfactory position, 2- requires improvement

"7M07312 - Land cadastre and land management" disclosed 12 criteria, of which: 2 have a strong position, 9 - satisfactory, 1- requires improvement.

6.7. The standard "Teaching staff"

✓ *The university should have an objective and transparent personnel policy in the context of the EP, including hiring (including invited teaching staff), professional growth and development of personnel, ensuring the professional competence of the entire staff.*

✓ *The university must demonstrate the compliance of the qualitative composition of the teaching staff with the established qualification requirements, the strategy of the university, the goals of the EP.*

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

✓ *The university should provide opportunities for career growth and professional development of teaching staff, including young teachers.*

✓ *The university should involve in teaching specialists of relevant industries with professional competencies that meet the requirements of the EP.*

✓ *The university must demonstrate the existence of a mechanism for motivating the professional and personal development of teaching staff.*

✓ *The university should demonstrate the widespread use of teaching staff of information and communication technologies and software in the educational process (for example, on-line training, e-portfolio, MOOS, etc.).*

✓ *The university should demonstrate the focus on the development of academic mobility, attracting the best foreign and domestic teachers.*

✓ *The university must demonstrate the involvement of each teacher in promoting a culture of quality and academic integrity at the university; determine the contribution of teaching staff, including invited ones, to achieving the goals of the EP.*

✓ *An important factor is the involvement of teaching staff in the development of the economy, education, science and culture of the region and the country*

The evidentiary part

The personnel policy of the university is one of the fundamental strategic priorities. Within its framework, regular professional development of teaching staff is organized, increasing the level of comfort and attractiveness of work at the university.

Developed GNI: N NAO "EKTU" 082 Regulations on the employee incentive System (from 10/15/2021); NAO "EKTU" 056 Regulations on the personnel reserve (from 02/10/2021); NAO "EKTU" 083 Regulations on the Conciliation Commission (from 03/16/2021) PR NAO "EKTU" 084 Internal Labor Regulations (from 01.03.2021); NAO "EKTU" 80 066 Regulations on the application of disciplinary measures and suspension from work (from 02/24/2021), etc. All information regarding institutional and personnel procedures is available to teaching staff and staff through the Personal Account and Corporate mail.

Qualification requirements for teaching staff positions are clearly spelled out in the Rules of competitive substitution of teaching staff and researchers (dated 11.06.2021) and published by the link https://www.ektu.kz/files/corporategovernance/doc/Pr_NAO_EKTU_080-I-2021.pdf.

The Personnel Selection and Development Department has also developed NAO "EKTU" 081 Instructions for personnel records management (dated 10.03.2021); NAO "EKTU" 079 Regulations on the selection and adaptation of personnel (dated 01.03.2021), which provides detailed instructions for the admission and adaptation of staff employed.

Using the resources of the site, the openness and alternative choice of the teacher from all candidates who have applied for participation in the competition for vacant places is ensured.

Information about the teaching staff of schools is posted on the university's website in the

"University" section (<https://www.ektu.kz/pps.aspx?lang=ru>). This information contains basic information about the personal and professional achievements of teachers. The personnel potential of accredited EP 6B07309 - BIM technologies in design, 7M07312 - Land Cadastre and Land Management generally corresponds to the Strategic Development Program of the University (https://www.ektu.kz/files/abouttheuniversity/Programmastrategicheskogo-razvitiya_NAO_EKTU_2023-2025.pdf).

The total number of teaching staff training students on EP 6B07309 - BIM technology in design is 30 people, including: with academic degrees and titles – 13 people, leading training sessions with a master's degree – 4 people. According to EP 7M07312, the Land Cadastre and Land Management in the 2022-2023 academic year, 8 full-time teaching staff train students, including: with academic degrees and titles – 6 people, leading training sessions with a master's degree - 2 people.

The management of the university, faculty/school and head of the EP determined the responsibility for their employees and creation of favourable working conditions in P NAO "EKTU" 085 Regulations on the School / Faculty / Department (07.04.2021), in the job description of the Dean of the Faculty / School.

The University implements the project "Future Capital" (<https://www.ektu.kz/projects/links/kapital-budushchego.aspx>), aimed at attracting teaching staff and researchers with work experience in the leading universities of the Republic of Kazakhstan and foreign universities.

To improve the level of English language proficiency of the teaching staff in 2021, EKTU in cooperation with the University of Delaware (USA) won a grant from the American Council on International Education for the development of trilingual education and partnerships "UD-EKTU Partnership in English as Medium of Scientific Instruction and Communication" for 2021.

The university applied for renewal of the contract with ETS Global - a subsidiary company of the non-profit organisation Educational Testing Service. This Contract started to be effective from March 24, 2022 and remains in force until January 31, 2024 in accordance with the Term.

In 2020, a contract was concluded to hold the TOEFL ITP exam at EKTU for students of regional universities. In 2021, the agreement was extended.

The university attracts practitioners to implement educational programmes. Thus, during the last year about 6 specialists from production were involved in teaching and scientific research. The share of disciplines read by practitioners is 20%.

Managers and employees of enterprises take an active part in the organization of practical training and diploma design, reviewing diploma projects, joint conferences, seminars, round tables and joint training of specialists.

Teachers SAaC Kenetbaev B.S., Udartseva A.N., Verevkin D.V. on EP 6B07309 "BIM technologies in design" have experience in production.

Two teachers of the School of Earth Sciences on EP 7M07312 - Land Cadastre and Land Management (Maksimov V.A., Baiseitov A.M.) have work experience in production.

Information on professional development and implementation of the results of professional development for each of the employees who have been trained during the academic year is included by the head of the structural unit in the final report on the work for the past academic year. The university has developed P NAO "EKTU" 131 Regulations on official business trips (dated 06/18/2022).

The university compensates for travel expenses for advanced training with the allocation of funding from the republican budget, as well as at the expense of non-budgetary funds.

During the period under review, the teaching staff of EP 6B07309 - BIM technologies in design, 7M07312 - Land Cadastre and Land Management passed international and republican refresher courses.

PC courses were organised on the basis of EGTU, in which 14 teachers, who teach classes on EP 7M07312 - Land Cadastre and Land Management, improved their qualification.

The university administration systematically evaluates the competence of teachers.

Approved NAO "EKTU" 082 Regulation on the system of incentives for employees (from 15.10.2021), which regulates the system of incentives for university employees: types, terms, order of incentives

NAO "EKTU" 091 Regulation on the Contest "The best employee of the month of NAO "EKTU"" (from 23.10.2020) among all university employees (teaching staff, APS, AUP, UWP, OP), except vice-rectors and members of the Contest Committee. The purpose of the Competition: to identify, support and stimulate highly professional staff, to educate young specialists by their example and to form a public opinion about the prestige of working at NAO "EKTU".

The management of the university stimulates the professional growth of teaching staff. An example is the encouragement of teaching staff with IELTS Academic certificates (not lower than 5.5 points), TOEFL IBT (not lower than 70) TOEFL PBT (not lower than 525), for the KazTest certificate, level B2 and higher (not a native speaker). And there are also a variety of one-time bonuses for significant achievements.

Teaching staff of EP 6B07309 "BIM technologies in design" use innovative educational technologies and modern teaching methods: audiovisual tools, such as slides in Power Point, video lectures with demonstrations of work in Autodesk Revit, SCAD Office, Tekla Structure programs.

Developed IND for the introduction of educational technologies in the educational process: DP NAO "EKTU" 041 Standards for the development of courses in OPEN EDX (dated 11/23/2022); P NAO "EKTU" 125 Regulations on open online courses (dated 11/23/2022). Teachers of EP 6B07309 "BIM technologies in design" developed a course "Building Information Modeling using Revit", which is hosted on the open education platform <https://open.ektu.kz/>.

Teachers of the School of Earth Sciences Rakhymberdina M.Ye. and Toguzova M.M. from 1.02.22 to 31.07.22 were trained under the Bolashak program at Lomonosov Moscow State University (Moscow, Russia).

The qualification requirements of the university for attracting foreign teaching staff are regulated in the NAO "EKTU" 068 Regulation on the procedure for admission and remuneration of attracted foreign scientists and consultants (dated 06.12.2022). According to accredited EP 6B07309 in the 2019-2022 academic year, an invited specialist, PhD, Talapov V.V. (Russia, Siberian BIM Academy) conducted classes, according to EP 7M07312 - Land Cadastre and Land Management in the 2021-2022, 2022-2023 academic years, the invited foreign scientist Evgeny Levin, PhD, professor at Michigan Technological University (USA) conducted classes.

The result of D. Serikbayev EKSTU's commitment to the principles of academic integrity is the introduction of basic mechanisms for observing academic integrity, such as: proctoring, anti-plagiarism, etc.

The University has developed a Code of Academic Integrity of students for the NAO "EKTU" 059-I-2021 (dated 09.03.2021)

The management and staff of the university annually speak in the media. For example, on 07.07.2022, the teachers of the School of Architecture and Construction, Professor A.V. Hapin, gave an interview on the ALTAI TV channel https://www.youtube.com/watch?v=n5_RnAXS5Kw.

Within the framework of the accredited EPS informs the general public and interested persons through the republican, regional and city media and social networks/. For example, in 2022-2023, news information is constantly updated on the University's website and in social networks (<https://www.instagram.com/ektu.sac/> , <https://www.instagram.com/ektu.ses/>)

Analytical part

According to the results of the analysis of the standard "Teaching staff", the EEC notes the existence of an objective personnel policy, staffing of the implemented educational programs with qualified specialists, compliance of the personnel potential of the teaching staff with the strategy of the university and the specifics of the EP.

During the visit of the EEK and the interviewing of the teaching staff, it was established that the university provides opportunities for career growth and professional development of the teaching staff of the EP.

According to the results of the survey, the teaching staffs of the accredited EP are satisfied:

- the attitude of the university management to you – 75.4%;
- relations with direct management – 91.2%;
- participation in management decision-making-71.9%.
- support for your suggestions and comments – 77.2%;
- activities of the university administration – 68.4%;
- terms of remuneration – 45.6%;
- convenience of work, services available at the university – 82.5%.

During the visit, the experts of the EEC NAAR noted that the university has an objective and transparent personnel policy, including hiring, professional growth and staff development, ensuring the professional competence of the entire staff, actively motivates the professional and personal development of teachers of the EP, encourages both the integration of scientific activity and education, and the use of innovative teaching methods. The management of the EP is aware of the responsibility for its employees and provides them with favorable working conditions.

The University is working to expand the external mobility of teachers and researchers, however, the involvement of foreign and domestic teachers is not fully traced in accredited educational institutions.

Strengths/best practices of EP "6B07309 - BIM-technologies in design, 7M07312 - Land cadastre and land management".

- Wide use of information and communication technologies and software tools in the educational process (e.g. on-line learning, u-portfolios, Morse, etc.).

EEC recommendations for EPs:

- 6B07309 - BIM-technologies in design

- To develop a plan for the development of academic mobility for the teaching staff of the EP, as well as for the attraction of leading national and foreign scientists for lectures and master classes (Term: 01.09.2023);

- 7M07312 - Land cadastre and land management:

- There are no recommendations for this standard.

EEC conclusions on the criteria for the standard "Faculty" EP:

"6B07309 BIM - Technology in Design" 10 criteria are disclosed, of which: 1 have a strong position, 8 have a satisfactory position, 1 requires improvement.

"7M07312- Land Cadastre and Land Management" disclosed 10 criteria, of which: 1- has a strong position, 9 satisfactory positions.

6.8 Educational Resources and Student Support Systems Standard

✓ *The university must ensure that the infrastructure, educational resources, including material and technical, meet the objectives of the educational program.*

✓ *The management of the EP must demonstrate the sufficiency of classrooms, laboratories and other facilities equipped with modern equipment that ensures the achievement of the goals of the EP.*

✓ *The university must demonstrate the compliance of information resources with the needs of the university and implemented educational programs, including in the following areas: technological support for students and teaching staff in accordance with educational programs (for example, online training, modeling, databases, data analysis programs); library resources, including the fund of educational, methodological and scientific literature in general education, basic and profile disciplines on paper and electronic media, periodicals, access to scientific databases; examination of research results, graduation papers, dissertations for plagiarism; access to educational Internet resources; functioning of WI-FI on its territory.*

✓ *The university must demonstrate that it creates conditions for conducting scientific research, integrating science and education, publishing the results of the research work of teaching staff, staff and students.*

✓ *The university should strive to ensure that the educational equipment and software used for the development of educational programs are similar to those used in the relevant sectors of the economy.*

✓ *The management of the EP should demonstrate the availability of support procedures for various groups of students, including information and counseling.*

✓ *The management of the EP should show the availability of conditions for the advancement of the student along an individual educational trajectory.*

- ✓ *The university should take into account the needs of various groups of students (adults, working, foreign students, as well as students with special educational needs).*
- ✓ *The university must ensure that the infrastructure meets the security requirements*

The evidentiary part

The University ensures the availability of sufficient, accessible and relevant educational resources and student support services.

3 special computer classes are involved in the training of students on the BIM – technology in the design: G-3-333 laboratory area, 50.0 number of seats, 9 - SKTB "Engineering"; G-L-214 laboratory area 54.0, number of seats 10, Computer class; G-L-218 laboratory with an area of 47.2, number of seats 8, Computer class, according to EP 7M07312 - Land Cadastre and Land Management 2 computer classes: laboratory of multiscale geophysics and remote studies G-3-322 with an area of 84.5, number of seats 15; GIS technology training laboratory G-3-312 with an area of 41.3, number of seats 9.

Specialized classrooms for the study of specialized programs Revit, Tekla Structures are equipped. According to the accredited EP 7M07312 - Land Cadastre and Land Management, the following specialized software is available in laboratories G-3-312, G-3-322: MapInfo Professional, AutoCAD, Farmer Pro, ArcGIS, QGIS, PHOTOMOD.

Used in the learning process during classes and in the process of performing research work on EP 7M07312 - Land Cadastre and land management:

Equipment

Aircraft (quadcopter) DJIP4 Multispectral 1
 GNSS SP60 satellite equipment set 1
 Satellite equipment GNSS SP90 set 1
 Leveller DL-2003A (1)
 Electronic precision tachymetre NTS-342RA
 GTX 6 leveller
 Geoscan "201" unmanned aerial vehicle
 Wintex 1000 sampler
 Accessories for global navigation system Leica GR10/GR25 set
 Trimble Dini digital leveller
 Trimble M3 DR 3" electronic tachymetre
 Stereo pixel stereo monitor
 Radio navigation equipment Leica GS08 plus 1
 Computer S1155 Intel Core i3-3100 (10)
 Leveller H-3 (60)
 Theodolite 2 T30 (65)

List of software tools

Farmer Pro software (1)
 Mapinfo Professional 10 Licence Software (1)
 PHOTOMOD- freely available
 AutoCAD- freely available
 QGIS- freely available
 ArcGIS- freely available

Since 2019, the Center for Competence and Technology Transfer in the field of BIM design has started working.

Lecture halls equipped with modern multimedia projectors and computers (auditorium G-1-217) are used for conducting classes using TSO and defending theses (projects).

Classrooms (G-3- 332, G-3-334) are fixed for teaching staff, undergraduates and managers of EP 6B07309. In the above-mentioned computer classes, classes are held in special disciplines of the accredited EP.

To increase the level of professional training and the development of modern software tools

in the office G-3-333 there are 9 PCs of the latest generation. The computers of the department are connected to the university corporate network.

The provision of software products and the solution of technical problems is implemented by the Department of Information Technology (<https://www.ektu.kz/divisions/uit.aspx>).

Students receive timely and high-quality services, information support, including on-line within the framework of the "Smart University" (<https://www.ektu.kz/divisions/academdep/centerstudentservice2.aspx>)

Each student has access to a personal account (<https://www.do.ektu.kz/doektu/?lang=ru>).

The fund of the university library is replenished annually. There was an increase in the fund for the 2021-2022 academic year from 1,038,254 copies to 1,040,112 copies books and other publications. The fund of literature in the Kazakh language has grown accordingly from 93,948 copies to 94,737 copies. The fund in foreign languages is 21,805 copies. The library receives 95 titles of periodicals.

The electronic catalog is located on the university's website (http://www.lib.ektu.kz/cgi/irbis64r_15/cgiirbis_64.exe?LNG=&C21COM=F&I21DBN=BOOCU_97_&P21DBN=POLN). Digital educational and methodological complexes are available at the link: <https://www.ektu.kz/repository/umkd.aspx>.

In order to avoid plagiarism, all types of written works of students are checked using the anti-plagiarism program according to the requirements set out in the NAO "EKTU" 038 "Regulation on the procedure for checking all types of written works for the presence of borrowings".

All information about the performance of indicators on scientific and innovative activity of teaching staff is reflected on the educational portal of the EKTU in the section "Scientific innovation activity"

For different groups of users on the site www.do.ektu.kz provides information about the university in three languages. On the Educational portal by authorized login in the "Student" tab, through the "Personal Account" and in the Dales The Methodist system (<https://www.do.ektu.kz/PReports/Methodist.asp>) you can get acquainted with all the information on the organization of the educational process in the NAO "EKTU", on the tab "Normative documents" with all the GNI of the NAO "EKTU" (<https://www.do.ektu.kz/laws/index.asp?lang=ru>).

Analytical part

As a result of a visual inspection of the facilities of the material base, the members of the EEC note that in order to ensure the educational process of accredited educational programs, the university has all the necessary educational and material assets. The buildings and structures of the University comply with the current sanitary standards and fire safety requirements.

The available auditorium fund (lecture halls, specialised laboratories, computer classes) provides the need of students of accredited EPs in training facilities.

As a result of analysing the activities of accredited EPs according to this standard, it can be concluded that the assessment of completeness and availability of material, technical and information resources specified by the EPs has been carried out. There is a dynamics of resources and learning environment, library support of the educational process, the activities aimed by the management of the EP to improve the resource support of the implementation of the EP are highlighted.

The equipment installed in the specialised laboratories and software tools used in mastering the EP corresponds to the equipment installed at the enterprises of geodesy and land surveying industries.

At the same time, the members of the EEC note the natural obsolescence of laboratory equipment for EP 6B07309 and, therefore, its renewal and reconstruction is required. In addition, the absence of junior students in the EP BIM design technology speaks about the need to analyze

the material and technical support from the point of view of attractiveness by consumers (entrants).

There is a good enough level of information support of educational and scientific-educational activities with access to full-text electronic resources of educational and scientific importance, which satisfies the needs of students and teaching staff.

Diploma theses and master's theses are checked for plagiarism.

According to the submitted documentation, the main building of the university is well equipped to provide an accessible environment, which was confirmed during the visual inspection. At the same time, other buildings are not equipped with specialised equipment and means of accessible environment.

When analysing the large volume of scientific research (financing is close to 20% of the university budget), the members of the EEC note mainly their applied, contractual nature and practical absence of fundamental research in the relevant scientific field. This explains the weak publication activity in fundamental journals. It should be planned to gradually transfer the accumulated applied scientific experience into fundamental research to ensure advanced scientific research.

According to the results of the questionnaire, the students are fully satisfied:

- Support with learning materials in the learning process-78.5%;
- Level of accessibility of library resources 91
- Quality of services provided in libraries and reading rooms-87%;
- Accessibility of computer labs-74%;
- Study rooms, classrooms for large groups-77.4 per cent;
- Recreation rooms for students (if available)-76.3 per cent;
- Provision of students with dormitory-76,2%.

Strengths/best practices for EPs 6B07309 - BIM technologies in design, 7M07312 - Land cadastre and land management

- The EPs do not have any strengths according to this standard.

EEC recommendations for EP 6B07309 - BIM-technologies in design, 7M07312 - Land cadastre and land management:

- to develop a programmer for scaling the experience of implementation of barrier-free educational environment formed in the main building of VKTU to the rest of the educational buildings until 2025.

Additional VEC recommendations for OP 6B07309 - BIM-technologies in design

- Despite the availability of new laboratories it is necessary to analyze the nomenclature of laboratory equipment produced on the market and make a perspective plan of renewal and reconstruction of the laboratory base of the School, paying special attention to the equipment for scientific research (Term 01.01.2025).

- On the basis of clustering of scientific research to identify scientific schools (creation of regulations on "Scientific School", issuance of orders on their creation, etc.) with the definition of scientific directions of their work, primarily fundamental (Deadline: 01.09.2024).

EEC conclusions on the criteria for the standard "Educational resources and student support systems" EP:

"6B07309 - BIM - technologies in design" disclosed 13 criteria, of which: 10 - satisfactory, 3- requires improvement

"7M07312 - Land cadastre and land management" disclosed 13 criteria, 12 have a satisfactory position, 1 - requires improvement.

6.9 Standard "Public Information"

- ✓ *The University guarantees that the published information is accurate, objective, relevant*

and reflects all areas of the university activities within the educational program.

✓ Public information should include support and explanation of national development programs of the country and the system of higher and postgraduate education.

✓ The university management should use a variety of ways to distribute information (including the media, web resources, information networks, etc.) to inform the general public and interested parties.

✓ Information about the educational program is objective, relevant and must include:

✓ the purpose and planned results of the EP, the qualification to be awarded;

✓ information and the system of evaluation of students' learning achievements;

✓ information on academic mobility programs and other forms of cooperation with partner universities, employers;

✓ information on possibilities of development of personal and professional competences of students and employment;

✓ data reflecting EP positioning at educational services market (at regional, national, international levels).

✓ An important factor is the publication of reliable information about teaching staff in the context of personalities on open resources.

✓ The University must publish audited financial statements on EP on its own web-resource. The university must place information and links to external resources on the results of external evaluation procedures.

✓ An important factor is to place information on cooperation and interaction with partners, including scientific/consulting organizations, business partners, social partners and educational organizations.

Evidence-Based Part

The main channel of informing the public and interested parties are the official website of the Institute, Social Networks and Media. The purpose of informing the public is to form a positive image of the university in the external environment, to establish and maintain cooperation with all stakeholders by informing the general public about various activities of the PA.

An important factor is the placement of information on cooperation and interaction with partners, including scientific/consulting organizations, the university seeks to carry out its activities based on the principles of transparency, openness, involvement and awareness of stakeholders.

The social role of the university also includes informing the public about the implemented Educational Programs and the expected results of these programs, qualifications awarded, the level of teaching, learning and assessment procedures, learning opportunities for students. Published information contains data on the success and employment of graduates. The information provided by the university is objective and accessible to students.

Informing the public on topical research issues is carried out through participation in public, scientific forums and establishing contacts with these public associations, departments of local executive bodies, etc. Taking in to account the specifics of the city and the region there is a close interaction between the industrial partners, educational organizations, executive bodies and the university.

The university provides information to the public about its activities, conditions and features of the implementation of educational programs. The university uses a variety of ways to disseminate information, including social networks (Instagram, V Kontakte, Twitter, Facebook, YouTube channel). There is information about educational programs on the pages of social networks and the website of the university.

The university management uses a variety of ways to disseminate information - the official website, newsletters, interaction with embassies and representative offices of foreign countries, briefings, round tables and conferences held by the management, open days, job fairs on the basis

of the university, meetings with graduates. Faculty and staff of the university are involved in conducting events at the regional level, including the explanation and support of state initiatives and programs.

To provide information to the internal environment, a corporate media resource - EKTU News - is actively used.

The University and educational programs of the accredited cluster take part in national ratings.

The University holds meetings of students with the rector, vice-rectors, student activists, employers, professors and university staff, where each participant of the meeting can ask any question of interest to each of the executives and get reliable information.

Analytical part

External Expert Commission notes that in the field of information dissemination D. Serikbayev University demonstrates the policy of transparency, openness, involvement in informing the public of applicants, employers, participants in the educational process and all stakeholders, constant development and adaptability to the changing realities of society.

The EEC notes the openness of the university and its management and willingness to provide objective information to external stakeholders through various channels of information presentation: website, social networks, mailing lists, etc.

During the EEC's visit, the university website posted a release on the thinning of the external evaluation, which indicates that the information about all quality assurance procedures is promptly and up-to-date on the website.

At the same time, the experts note the need to supplement the objective information presented on the site about the changes in the EP, the implementation of plans for the development of educational programs.

The website of the university provides comprehensive information on the teaching staff of the entire university, but the members of the EEC note the absence of this information in the relevant sections of the website of individual schools or EPs.

When analyzing the educational portal "academic mobility" (<https://www.do.ektu.kz/doektu/akademmobil.aspx?lang=ru>), the experts expressed the opinion on the expediency of supplementing it with direct links to the section of international cooperation, as well as timely updating information on the selection criteria for participation in the academic mobility program.

The university website provides information on successful graduates, but the EEC members note the weak structured information about the demand for future graduates on EP 6B07309 - BIM-technologies in design.

The members of the EEC note the absence on the website of OP updated information about the uniqueness of EP 6B07309 - BIM-technology in design in the field of demand in the labor market and, perhaps, as a consequence, the lack of information about vacancies for future graduates of EP.

Strengths/best practices on EP 6B07309 - BIM-technologies in design, 7M07312 - Land cadastre and land management

- The University uses a variety of ways to disseminate information to inform the public: the official website of the University, accounts in social networks: YouTube, Facebook, Instagram, Facebook.

- A distinctive feature of the University website is comprehensive information on all ongoing and planned procedures for external evaluation of the quality of education and research.

EEC recommendations for EP 6B07309 - BIM-technologies in design, 7M07312 - Land cadastre and land management:

- The management of the university and the EP is recommended to place information about the teaching staff on the website of the university not only for the general PA, but also to duplicate

the relevant information in the individual Schools or EPs. Deadline: from 01.01.2024.

Additional recommendations on EP 6B07309 - BIM-technologies in design

- the management of the university until the end of August 2023 to complete the structure of the page of the educational portal "academic mobility" with the information:

1) a direct link to the page of the management of international cooperation with a feedback block and links to social networks;

2) a tab with additional information on academic mobility, including current information on the conditions, terms and competitive selection for mobility programs.

- the EP management together with the relevant structural divisions to develop a section on the EP web-site with the placement of current information on the demand for graduates (indicating specific companies and the number of vacancies on the accredited EP) (deadline: 01.09.2024).

- to the management of EP according to the results of the analysis of EP and the selection of its unique features, taking in to account the demand in the labor market, consider the need to conduct an information campaign for all stakeholders (primarily applicants) about the competitive advantages of EP (Deadline: 01.09.2024)

Conclusions of the EEC on the criteria of the standard "Public Information":

For EP "6B07309 BIM - technologies in design" 12 criteria are disclosed, of which: 2 have a strong position, 6 - satisfactory, 4 requires improvement

On EP "7M07312- Land cadastre and land management" 12 criteria are disclosed, of which: 2 have a strong position, 9 - satisfactory, 1- requires improvement.

(VII) A REVIEW OF THE STRENGTHS/BEST PRACTICES OF EACH STANDARD

Strengths/best practices in EP 6B07309 - BIM-technology in design, 7M07312 - Land cadastre and land management

Educational Program Management Standard

- The EP management actively carries out professional development, including educational management programs, as evidenced by the availability of a large list of certificates.

Information Management and Reporting Standard

- According to this standard, EPs do not have strengths.

Standard "Development and approval of the educational program"

- According to this standard, EPs do not have strengths.

Standard "Continuous monitoring and periodic evaluation of educational programs"

- According to this standard, EPs do not have strengths.

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

- According to this standard, EPs do not have strengths.

The "Trainees" standard

- The university has developed and tested an adaptive procedure for the formation of the contingent depending on the needs of the labor market.

- The university has developed and implemented in the educational process a specialized adaptation program "Foundation" for first-year students, which allows to accelerate the process of their adaptation to university life.

The "Teaching staff" standard

- Extensive use of information and communication technologies and software tools in the

educational process (e.g., on-line learning, e-portfolio, MOOC, etc.).

The standard "Educational resources and student support systems".

- There are no strengths of the EPs according to this standard.

The "Public Information" standard.

- The university uses a variety of ways to disseminate information to inform the public: the official website of the University, accounts in social networks: YouTube, Facebook, Instagram, Facebook.

- A distinctive feature of the University website is comprehensive information about all ongoing and planned procedures for external evaluation of the quality of education and research.



(VIII) REVIEW OF QUALITY IMPROVEMENT RECOMMENDATIONS FOR EACH STANDARD

EEC recommendations on EP 6B07309 - BIM-technologies in design, 7M07312 - Land cadastre and land management

Standard Educational program management

EEC recommendations on OP 6B07309 - BIM-technologies in design:

- To reconsider the plan of development of OP with the purpose of allocation of unique features of its realization and attraction of students both from NCO, and from other regions (Term: 01.09.2023).

- By the beginning of 2023-2024 academic year to update the procedure for analysis and mitigation of risks associated with the design and implementation of EP (including staffing, contingent formation, etc. with the indication of specific indicators, deadlines and those responsible for implementation).

Recommendations of the EEC on OP 7M07312 - Land Cadastre and Land Management:

- There are no recommendations for this standard.

Standard "Information Management and Reporting".

- There are no recommendations for this standard.

Standard "Development and approval of the educational program".

EEC recommendations for EP 7M07312 - Land Cadastre and Land Management:

- To the management of the OP to determine the types/areas of professional certification (strictly within the OP or by information technology) for which students can be trained and directly tested for obtaining certificates (Deadline: 30.05.2024)

EEC recommendations for OP 6B07309 - BIM-technologies in design:

- Develop a plan to expand the list of professional certifications, including information technology, and consider organizing the certification process directly at the university. (Deadline: 01.09.2024)

- To consider the possibility of organizing a double-diploma EP together with Russian universities or other leading foreign universities (Deadline: 01.09.2023);

- To hold working meetings, round tables and other events in order to determine the uniqueness of EP and its positioning in the labor market (Term: 01.09.2023);

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

Recommendations of EEC for OP 6B07309 - BIM-technologies in design

- It is recommended that the OP management develop a procedure for obtaining feedback on the results of informing stakeholders about all actions planned or taken in relation to the OP (Deadline: 01.09.2024).

EEC Recommendations for OP 7M07312 - Land Cadastre and Land Management

- There are no recommendations for this standard.

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

- The management of the EP should prepare a plan for the development and implementation in the educational process of their own research of the teaching methodology of academic disciplines of the accredited EP (Deadline: 01.09.2023).

Trainees Standard

- Activate the work of the alumni association by including its members in collegial bodies of discussion and adjustment of the EP (Deadline: 01.09.2023)

- To update the section of the university website in terms of highlighting the activities of

the alumni association, such as information (photos, videos, digest) on the participation of its members in collegial bodies, career guidance events, etc. (Deadline 01.01.2024)

Additional EEC recommendations for EP 6B07309 - BIM-technologies in design:

- EP management to develop a plan to provide opportunities for external and internal academic mobility of students, as well as to assist them in obtaining external grants for training (Deadline: 01.09.2023);

Standard "Teaching staff"

Recommendations of the EEC for EP 6B07309 - BIM-technologies in design

- To develop a plan for the development of academic mobility for the teaching staff of the OP, as well as attracting leading national and foreign scientists to give lectures and conduct master classes (Deadline: 01.09.2023)

Recommendations of the EEC for the EP 7M07312 - Land Cadastre and Land Management

- There are no recommendations for this standard.

Standard "Educational Resources and Student Support Systems"

- to develop a programme to scale the experience of implementing a barrier-free educational environment formed in the main building of VKTU to the other academic buildings by 2025.

Additional EEC Recommendations for EP 6B07309 - BIM Technologies in Design

- Despite the availability of new laboratories, it is necessary to analyze the nomenclature of laboratory equipment on the market and make a prospective plan for renovation and reconstruction of the laboratory base of the School, with particular attention to the equipment for scientific research (Term 01.01.2025).

- On the basis of scientific research clustering, identify scientific schools (creating regulations on "Scientific School", issuing orders for their establishment, etc.) and determine their scientific areas of work, primarily fundamental ones (Deadline: 01.09.2024).

Standard "Informing the public"

- It is recommended that the management of the university and the EP to post information about the teaching staff on the website of the university not only for the general PA, but also to duplicate the relevant information within individual Schools or EPs. Deadline: from 01.01.2024.

Additional recommendations for EP 6B07309 - BIM-technology in design

- the management of the university until the end of August 2023 to supplement the structure of the page of the educational portal "academic mobility" (<https://www.do.ektu.kz/doektu/akademmobil.aspx?lang=ru>) with the information:

1) a direct link to the page of the management of international cooperation with a feedback block and links to social networks;

2) a tab with additional information on academic mobility, including current information on the conditions, terms and competitive selection for mobility programs.

- the EP management together with the relevant structural divisions to develop a section on the EP web-site with the placement of current information on the demand for graduates (indicating specific companies and the number of vacancies on the accredited EP) (deadline: 01.09.2024).

- to the management of EP according to the results of the analysis of EP and the selection of its unique features, taking in to account the demand in the labor market, consider the need to conduct an information campaign for all stakeholders (primarily applicants) about the competitive advantages of EP (Deadline: 01.09.2024)

(IX) REVIEW OF RECOMMENDATIONS FOR THE DEVELOPMENT OF
(X) EDUCATIONAL ORGANIZATION

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



RECOMMENDATION TO THE ACCREDITATION COUNCIL

The EEC members made a unanimous decision to recommend to the Accreditation Council to accredit the educational program 6B07309 - BIM-technology in engineering for a period of 3 (three) years, 7M07312 - Land cadastre and land management for a period of 5 (five) years.



Appendix 1. ASSESSMENT TABLE "Conclusion of the External Expert Commission

for EP "6B07309 - BIM-technologies in design"

n\п	п\п	Assessment Criteria	Position of educational organization			
			Powerful	satisfactory	involves improving	failing grade
Standard "Management of educational program"						
1	1.	The university should demonstrate the development of the purpose and strategy of EP development based on the analysis of external and internal factors with a wide involvement of a variety of stakeholders		+		
2	2.	The quality assurance policy should reflect the relationship between research, teaching and learning		+		
3	3.	The university demonstrates the development of a quality assurance culture		+		
4	4.	Commitment to quality assurance should apply to any activities performed by contractors and partners (outsourcing), including in the implementation of joint/double degree education and academic mobility		+		
5	5.	EP leadership ensures transparency in the design of EP development plan based on the analysis of its functioning, the real positioning of the university and the orientation of its activities to meet the needs of students, the state, employers and other stakeholders		+		
6	6.	The EP management demonstrates the functioning of mechanisms for the formation and regular review of the EP development plan and monitoring its implementation, assessment of the achievement of learning objectives, compliance with the needs of students, employers and society, decision-making aimed at continuous improvement of EP		+		
7	7.	Management of EP should involve representatives of stakeholder groups, including employers, students and teaching staff in the formation of EP development plan		+		
8	8.	EP leadership must demonstrate the individuality and uniqueness of the EP development plan, its consistency with national development priorities and the development strategy of the educational organization			+	
9	9.	The university should demonstrate a clear definition of those responsible for business processes within SP, distribution of RP staff duties, delineation of functions of collegial bodies		+		
10	10.	EP leadership ensures the coordination of activities of all persons involved in the design and management of EP and its continuous implementation, as well as involves all stakeholders in this process		+		
11	11.	The management of the EP must ensure the transparency of the management system, the functioning of the internal quality assurance system, including its design, management and monitoring, making appropriate decisions		+		
12	12.	EP management should carry out risk management			+	
13	13.	Management of EP should ensure the participation of representatives of stakeholders (employers, teaching staff, students) in the collegial management bodies of the educational program, as well as their representativeness in decision-making on the management of the educational program		+		
14	14.	The university must demonstrate innovation management within the EP,		+		

		including analysis and implementation of innovative proposals				
15	15.	Management of EP must demonstrate its openness and accessibility for students, teaching staff, employers and other stakeholders		+		
16	16.	EP leaders must confirm the training in education management programs	+			
17	17.	The EP leadership should strive to ensure that the progress made since the last external quality assurance procedure is taken into account in preparation for the next procedure		+		
Total according to the standard			1	14	2	
Information Management and Reporting Standard						
18	1.	The university should ensure the functioning of the system of collection, analysis and management of information on the basis of modern information and communication technologies and software		+		
19	2.	EP management demonstrates the systematic use of processed, adequate information to improve the internal system of quality assurance		+		
20	3.	The EP management demonstrates the availability of a reporting system, reflecting the activities of all structural divisions and departments within EP, including an assessment of their performance		+		
21	4.	The university must determine the frequency, forms and methods of EP management evaluation, activities of collegial bodies and structural divisions, top management		+		
22	5.	The university must demonstrate a mechanism to ensure information security, including the identification of responsible persons for the reliability and timeliness of information analysis and reporting		+		
23	6.	The university demonstrates the involvement of students, employees and faculty in the processes of collecting and analyzing information, as well as making decisions based on them		+		
24	7.	Management of EP must demonstrate the availability of mechanisms of communication with students, staff and other stakeholders, including conflict resolution		+		
25	8.	The university should ensure the measurement of the degree of satisfaction of students, faculty and staff within the framework of EP and demonstrate evidence of elimination of detected deficiencies		+		
26	9.	The university should evaluate the effectiveness and efficiency of activities in terms of EP		+		
<i>The information collected and analyzed by the university as part of the EP should take into account:</i>						
27	10.	key performance indicators		+		
28	11.	Dynamics of the contingent of students by forms and types		+		
29	12.	Level of academic progress, student achievements and drop-out rates		+		
30	13.	satisfaction of students with implementation of EP and the quality of education at university		+		
31	14.	Availability of educational resources and support systems for students		+		
32	15.	Employability and career advancement of graduates		+		
33	16.	The students, teaching staff and personnel should provide documented consent for processing personal data		+		
34	17.	Management of EP must contribute to the provision of necessary information in relevant fields of science		+		
Total according to the standard				17		
Standard "Development and approval of the educational program»						
35	1.	The university must demonstrate the existence of a documented procedure		+		

		for developing the EP and its approval at the institutional level				
36	2.	The university must demonstrate compliance of the developed EP with the established objectives and planned learning outcomes		+		
37	3.	The EP management must determine the influence of disciplines and professional practices on the formation of learning outcomes		+		
38	4.	The university should demonstrate the availability of EP graduate model, which describes learning outcomes and personal qualities		+		
39	5.	The qualification awarded at the end of the EP should be clearly defined, explained and correspond to the defined level of NSC, QF-EHEA		+		
40	6.	The management of EP should demonstrate the modular structure of the program based on ECTS, ensure compliance of the content structure of EP to the set objectives, focusing on the achievement of the planned learning outcomes of each graduate		+		
41	7.	The management of the EP must ensure that the content of academic disciplines and learning outcomes are consistent with each other and with the level of study (bachelor, master, doctorate)		+		
42	8.	The EP management must demonstrate the external expertise of the EP		+		
43	9.	The EP management must provide evidence of participation of students, teaching staff and other stakeholders in the development and quality assurance of EP		+		
44	10.	The EP management must demonstrate the uniqueness of the educational program, its positioning in the educational market (regional/national/international)			+	
45	11.	An important factor is the possibility to prepare students for professional certification			+	
46	12.	An important factor is the presence of joint and/or double-diploma EP with foreign universities			+	
Total according to the standard				9	3	
The standard "Continuous monitoring and periodic evaluation of the educational program"						
47	1.	The university must ensure the revision of the structure and content of EP taking in to account changes in the labor market, employers' requirements and social demands of society		+		
48	2.	The university is obliged to demonstrate the existence of a documented procedure of monitoring and periodic assessment to achieve the purpose of EP and the continuous improvement of EP		+		
<i>Monitoring and periodic evaluation of the EP should consider:</i>						
49	3.	Program content in the context of recent advances in science and technology in a particular discipline		+		
50	4.	Changes in the needs of society and the professional environment		+		
51	5.	The workload, progress, and graduation rates of students		+		
52	6.	The effectiveness of assessment procedures for students		+		
53	7.	The needs and satisfaction of students		+		
54	8.	The relevance of the educational environment and support services to the goals of the EP		+		
55	9.	Management of EP must publish information on EP changes, inform the interested parties about any actions planned or taken within the EP			+	

56	10.	Support services should identify the needs of different groups of students and the degree of their satisfaction with the organization of learning, teaching, assessment, learning EP in general		+		
Total according to the standard				9	1	
Student-Centered Learning, Teaching, and Assessment Standard						
57	1.	Management of EP must ensure respect and attention to different groups of students and their needs, providing them with flexible learning paths		+		
58	2.	EP governing body has to provide teaching based on modern achievements of world science and practice in the field of training, the use of various modern methods of teaching and learning outcomes assessment, ensuring the achievement of EP goals, including competencies, skills to perform scientific work at the required level		+		
59	3.	the management of EP should determine the mechanisms for distribution of the academic load of students between theory and practice within EP, ensuring the mastering of the content and achievement of EP goals by each graduate		+		
60	4.	The important factor is to have own researches in the field of teaching methodology of EP disciplines			+	
61	5.	The university should ensure that the procedures for assessing learning outcomes correspond to the planned results and objectives of EP		+		
62	6.	The university should ensure consistency, transparency and objectivity of the mechanism for assessing learning outcomes of EP, publication of criteria and methods of assessing learning outcomes in advance.		+		
63	7.	Evaluators must know modern methods of assessing learning outcomes and regularly improve their qualification in this field		+		
64	8.	EP leaders must demonstrate a system of feedback on the use of different methods of teaching and learning outcomes assessment		+		
65	9.	EP supervisors must demonstrate support for learner autonomy while being guided and assisted by a faculty member		+		
66	10.	EP supervisors must demonstrate that there is a process for responding to learner complaints		+		
Total according to the standard				9	1	
The Learner Standard						
67	1.	The university must demonstrate a policy of formation of the contingent of students and ensure the transparency and publication of procedures regulating the life cycle of students (from admission to completion)	+			
68	2.	Management of EP must provide special programs of adaptation and support for newcomers and foreign students	+			
69	3.	The university should demonstrate compliance of its actions with the Lisbon Recognition Convention, including the existence and application of a mechanism for the recognition of the results of academic mobility of students, as well as the results of additional, formal and informal learning		+		
70	4.	The university should ensure the possibility of external and internal academic mobility of students, as well as to assist them in obtaining external grants for study			+	
71	5.	The university should encourage students to self-education and development beyond the basic program (extracurricular activities)		+		
72	6.	An important factor is the existence of a support mechanism for gifted students		+		
73	7.	The university must demonstrate cooperation with other educational organizations and national centers of the "European Network of National Academic Recognition and Mobility Information Centers/National Academic Recognition Information Centers" ENIC/NARIC in order to ensure comparable recognition of qualifications		+		

74	8.	The university should provide students with internships, demonstrate a procedure of facilitating the employment of graduates, maintaining contact with them		+		
75	9.	the university should demonstrate the procedure of issuing to graduates the documents confirming the obtained qualification, including the achieved results of education		+		
76	10.	EP supervisors should demonstrate that graduates of the program have skills that are in demand in the labor market and that these skills are really relevant		+		
77	11.	Management of EP must demonstrate that there is a mechanism to monitor the employment and professional activities of graduates		+		
78	12.	An important factor is the existence of a functioning alumni association/association			+	
Total according to the standard			2	8	2	
The "Faculty" standard						
79	1.	The university should have an objective and transparent personnel policy in the context of EP, including recruitment (including guest faculty), professional growth and development of staff, ensuring the professional competence of all staff		+		
80	2.	The university must demonstrate compliance of the qualitative composition of teaching staff with the established qualification requirements, the strategy of the university, and the goals of EP		+		
81	3.	The EP management must demonstrate a change in the role of the faculty in connection with the transition to student-centered learning and teaching		+		
82	4.	The university should offer opportunities for career growth and professional development of teaching staff, including young faculty		+		
83	5.	The university should attract to teaching specialists from relevant industries, with professional competencies that meet the requirements of EP		+		
84	6.	The university should demonstrate a mechanism for motivation of professional and personal development of the teaching staff		+		
85	7.	The university should demonstrate a wide use of information and communication technologies and software in the educational process (for example, on-line learning, e-portfolio, MOOCs, etc.)	+			
86	8.	The university should demonstrate focus on the development of academic mobility, attracting the best foreign and domestic teachers			+	
87	9.	The university should demonstrate the involvement of each faculty member in promoting a culture of quality and academic integrity in the university, to determine the contribution of the teaching staff, including invited ones, in achieving the goals of EP		+		
88	10.	An important factor is the involvement of the teaching staff in the development of economy, education, science and culture of the region and country		+		
Total according to the standard			1	8	1	
Educational Resources and Student Support Systems Standard						
89	1.	The university must ensure that the infrastructure, educational resources, including material and technical, correspond to the objectives of the educational program		+		
90	2.	Management of EP should demonstrate the sufficiency of classrooms, laboratories and other facilities equipped with modern equipment, ensuring the achievement of the goals of EP		+		
<i>The university must demonstrate compliance of information resources with the needs of the university and the implemented educational programs, including the following areas:</i>						
91	3.	technological support for students and faculty in accordance with educational programs (e.g., online learning, modeling, databases, data analysis programs)		+		

92	4.	library resources, including a fund of educational, methodical and scientific literature on general education, basic and specialized disciplines in paper and electronic media, periodicals, access to scientific databases		+		
93	5.	Expertise of the results of research works, graduation works and dissertations for plagiarism		+		
94	6.	Access to educational Internet resources		+		
95	7.	WI-FI operation on its territory		+		
96	8.	The university should demonstrate that it creates conditions for scientific research, integration of science and education, publication of the results of research work of the teaching staff, employees and students			+	
97	9.	The university should strive to ensure that the educational equipment and software used to master educational programs, were similar to those used in the relevant industries			+	
98	10.	It is necessary to demonstrate the availability of procedures to support different groups of students, including information and consulting		+		
99	11.	EP management must demonstrate the availability of conditions for advancement of the student on an individual educational trajectory		+		
100	12.	The university must consider the needs of different groups of students (adults, working, foreign students, as well as students with special educational needs)			+	
101	13.	The university must ensure compliance of the infrastructure with the safety requirements		+		
Total according to the standard				10	3	
The standard "Informing the public"						
102	1.	The university guarantees that the published information is accurate, objective, relevant and reflects all areas of the university activities within the educational program		+		
103	2.	Informing the public must provide support and clarification of the national development programs of the country and the system of higher and postgraduate education		+		
104	3.	The management of the university should use a variety of ways to distribute information (including the media, Web resources, information networks, etc.) to inform the general public and interested parties		+		
<i>Information about the educational program is objective, up-to-date and must include:</i>						
105	4.	the goal and planned results of the program, the qualification to be awarded		+		
106	5.	information on the system of evaluation of academic achievements of students		+		
107	6.	information on academic mobility programs and other forms of cooperation with partner universities, employers			+	
108	7.	information about possibilities of development of personal and professional competencies of students and employment			+	
109	8.	data reflecting the positioning of EP in the market of educational services (at the regional, national, international levels)			+	
110	9.	An important factor is the publication of reliable information about teaching staff in open resources, in terms of personalities			+	
111	10.	The higher education institution must publish an audited financial report on SP on its own web-resource		+		
112	11.	The university should publish information and links to external resources on the results of external evaluation procedures	+			
113	12.	An important factor is the placement of information about cooperation and interaction with partners, including scientific/consulting organizations,		+		

	business partners, social partners and educational organizations				
Total according to the standard		2	6	4	
TOTAL		6	90	17	

for OP 7M07312 - Land Cadastre and Land Management

п\п	п\п	Assessment Criteria	Position of educational organization			
			Powerful	satisfactory	involves improving	failing grade
The standard "Management of the educational program"						
1	1.	The university should demonstrate the elaboration of the goal and strategy of EP development on the basis of the analysis of external and internal factors with a wide involvement of a variety of stakeholders		+		
2	2.	The quality assurance policy should reflect the relationship between research, teaching and learning		+		
3	3.	The HEI demonstrates the development of a quality assurance culture		+		
4	4.	Commitment to quality assurance should apply to any activities carried out by contractors and partners (outsourcing), including joint/double-degree education and academic mobility		+		
5	5.	Management of EP ensures the transparency of the development plan of EP based on the analysis of its functioning, the real positioning of the university and the orientation of its activities to meet the needs of students, state, employers and other stakeholders		+		
6	6.	EP management demonstrates the functioning of mechanisms for the formation and regular review of the EP development plan and monitoring its implementation, assessment of the achievement of learning objectives, compliance with the needs of students, employers and society, decision-making aimed at the continuous improvement of EP		+		
7	7.	Management of EP should involve representatives of stakeholder groups, including employers, students and teaching staff into the formation of EP development plan		+		
8	8.	EP leadership must demonstrate the individuality and uniqueness of the		+		
9	9.	EP development plan, its coordination with national development priorities and the development strategy of the educational organization		+		
10	10.	The university must demonstrate a clear definition of those responsible for business processes within SP, distribution of staff duties, delineation of functions of collegial bodies		+		
11	11.	The management of the EP must ensure the transparency of the management system, the functioning of the internal system of quality assurance, including its design, management and monitoring, making appropriate decisions		+		
12	12.	The management of the EP should carry out risk management		+		
13	13.	EP management must ensure the participation of representatives of stakeholders (employers, faculty, students) in the collegial management bodies of the educational program, as well as their representativeness in decision-making on the management of the educational program		+		

14	14	The university must demonstrate innovation management within the EP, including analysis and implementation of innovative proposals		+		
15	15.	Management of EP must demonstrate its openness and accessibility for students, teaching staff, employers and other stakeholders		+		
16	16	EP leaders must confirm the training in education management programs	+			
17	17	The EP leadership should strive to ensure that the progress made since the last external quality assurance procedure is taken into account in preparation for the next procedure		+		
Total according to the standard			1	16		
The standard "Information Management and Reporting"						
18	10.	The university must ensure the functioning of the system of collection, analysis and management of information on the basis of modern information and communication technologies and software tools		+		
19	11.	EP management demonstrates the systematic use of processed, adequate information to improve the internal quality assurance system		+		
20	12.	EP leaders demonstrate the availability of a reporting system, reflecting the activities of all structural divisions and departments within the EP, including an assessment of their performance		+		
21	13.	The university should determine the frequency, forms and methods of EP management evaluation, activities of collegial bodies and structural divisions, top management		+		
22	14.	The university should demonstrate a mechanism to ensure the protection of information, including the identification of responsible persons for the reliability and timeliness of the analysis of information and data provision		+		
23	15.	The university must demonstrate the involvement of students, employees and faculty in the process of collecting and analyzing information and making decisions based on them		+		
24	16.	EP management must demonstrate the availability of mechanisms of communication with students, employees and other stakeholders, including conflict resolution		+		
25	17.	The university should ensure the measurement of the degree of satisfaction of students, faculty and staff within the framework of EP and demonstrate evidence of elimination of detected deficiencies		+		
26	18.	The university should evaluate the effectiveness and efficiency of activities in terms of EP		+		
<i>The information collected and analyzed by the university as part of the EP should take into account:</i>						
27	10.	key performance indicators		+		
28	11.	Dynamics of the contingent of students by forms and types		+		
29	12.	Level of academic progress, student achievements and drop-out rates		+		
30	13.	satisfaction of students with implementation of EP and the quality of education at university		+		
31	14.	Availability of educational resources and support systems for students		+		
32	15.	Employability and career advancement of graduates		+		
33	16.	The students, teaching staff and personnel should provide documented consent for processing personal data		+		
34	17.	Management of EP must contribute to the provision of necessary information in relevant fields of science		+		
Total according to the standard				17		

Standard "Development and approval of the educational program"						
35	1.	The university must demonstrate the existence of a documented procedure for the development of EP and its approval at the institutional level		+		
36	2.	The university must demonstrate compliance of the developed EP with the established objectives and planned learning outcomes		+		
37	3.	The EP management should determine the influence of disciplines and professional practices on the formation of learning outcomes		+		
38	4.	The university should demonstrate the availability of EP graduate model, which describes learning outcomes and personal qualities		+		
39	5.	The qualification awarded at the end of SP should be clearly defined, explained and correspond to the defined level of NSC, QF-EHEA		+		
40	6	The management of EP must demonstrate the modular structure of the program, based on ECTS, to ensure that the structure of the content of EP is consistent with the goals set, focusing on the achievement of the planned learning outcomes of each graduate		+		
41	7.	The management of EP must ensure the compliance of the content of educational disciplines and learning outcomes to each other and to the level of education (bachelor, master, Ph.D.)		+		
42	8.	The EP management must demonstrate the external expertise of the EP		+		
43	9.	the EP management must provide evidence of participation of students, teaching staff and other stakeholders in the development and quality assurance of EP		+		
44	10.	the EP management must demonstrate the uniqueness of the educational program, its positioning in the educational market (regional/national/international)		+		
45	11.	An important factor is the possibility to prepare students for professional certification			+	
46	12.	an important factor is the presence of joint and/or double-diploma EP with foreign universities		+		
Total according to the standard					11	1
The standard "Continuous monitoring and periodic assessment of the educational program".						
47	1.	The university is obliged to ensure the revision of structure and content of EP taking into account changes of the labor market, employers' requirements and social request of the society		+		
48	2.	The HEI is obliged to demonstrate the availability of documented procedures for monitoring and periodic assessment to achieve the purpose of EP and the continuous improvement of EP		+		
<i>Monitoring and periodic evaluation of the EP should consider:</i>						
49	3.	program content in the context of recent advances in discipline-specific science and technology		+		
50	4.	changes in the needs of society and the professional environment		+		
51	5	workload, progress and graduation of students		+		
52	6.	the effectiveness of evaluation procedures for students		+		
53	7.	the needs and degree of satisfaction of students		+		
54	8	The educational environment and support services correspond to the objectives of the EP		+		

55	9	Management of EP must publish information on EP changes, inform the interested parties about any actions planned or taken within the EP		+		
56	10.	Support services should identify the needs of different groups of students and the degree of their satisfaction with the organization of learning, teaching, assessment, mastering the EP in general		+		
Total according to the standard				10		
Student-Centered Learning, Teaching, and Assessment Standard						
57	1.	Management of EP must ensure respect and attention to different groups of students and their needs, providing them with flexible learning paths		+		
58	2.	EP governing body has to provide teaching based on modern achievements of world science and practice in the field of training, the use of various modern methods of teaching and learning outcomes assessment, ensuring the achievement of EP goals, including competencies, skills to perform scientific work at the required level		+		
59	3.	management of EP should determine the mechanisms for distribution of students' academic workload between theory and practice within EP, ensuring the mastering of the content and achievement of EP goals by each graduate		+		
60	4	An important factor is the availability of own research in the field of teaching methodology of OP disciplines			+	
61	5.	The University is obliged to ensure compliance of the learning outcomes assessment procedures with the planned results and objectives of the EP		+		
62	6.	The University is obliged to ensure consistency, transparency and objectivity of the mechanism of assessment of learning outcomes of the OP, publication of criteria and methods of assessment of learning outcomes in advance		+		
63	7.	Evaluators must be familiar with modern methods of learning outcomes assessment and regularly improve their qualification in this area		+		
64	8.	The EP management should demonstrate the existence of a feedback system on the use of different teaching and learning outcomes assessment methods		+		
65	9.	The EP management must demonstrate support for learner autonomy while being guided and assisted by the instructor		+		
66	10.	The EP management must demonstrate that there is a procedure for responding to learner complaints		+		
Total according to the standard				9	1	
Learners Standard						
67	1.	The HEI should demonstrate the policy of forming the contingent of students and ensure transparency, publication of procedures regulating the life cycle of students (from admission to completion)	+			
68	2.	The management of the EP should provide for special adaptation and support programs for newly enrolled and foreign students	+			
69	3.	The university must demonstrate compliance of its actions with the Lisbon Convention on Recognition, including the existence and application of a mechanism to recognize the results of academic mobility of students, as well as the results of additional, formal and non-formal training		+		
70	4.	The university should provide an opportunity for external and internal academic mobility of students, as well as assist them in obtaining external grants for training		+		
71	5.	The university should encourage students to self-education and development outside the main program (extracurricular activities)		+		
72	6.	An important factor is the availability of a mechanism to support gifted students		+		

73	7.	The University is obliged to demonstrate cooperation 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		+		
74	8.	The HEI is obliged to provide students with internship places, to demonstrate the procedure of facilitating the employment of graduates, maintaining contact with them		+		
75	9.	The HEI is obliged to demonstrate the procedure of issuing to graduates the documents confirming the obtained qualification, including the achieved learning outcomes.		+		
76	10.	The EP management must demonstrate that the graduates of the program have skills that are in demand on the labor market and that these skills are really relevant		+		
77	11.	The program management must demonstrate that there is a mechanism for monitoring the employment and professional activity of the graduates		+		
78	12.	An important factor is the existence of an active alumni association/association			+	
Total according to the standard			2	9	1	
Standard "Faculty"						
79	1.	The HEI should have an objective and transparent personnel policy in the context of the OP, including recruitment (including invited faculty members), professional growth and development of staff, ensuring professional competence of the entire staff		+		
80	2.	The HEI should demonstrate the compliance of the qualitative composition of the teaching staff with the established qualification requirements, the HEI strategy, the objectives of the OPs		+		
81	3.	The EP management should demonstrate the change of the teacher's role in connection with the transition to student-centered learning and teaching.		+		
82	4.	The HEI should provide opportunities for career growth and professional development of the teaching staff, including young teachers.		+		
83	5.	The HEI is obliged to attract to teaching specialists from relevant industries with professional competencies that meet the requirements of the EP		+		
84	6.	The University is obliged to demonstrate the existence of a mechanism of motivation for professional and personal development of the teaching staff		+		
85	7.	The university is obliged to demonstrate a wide application of information and communication technologies and software tools in the educational process (e.g. on-line learning, e-portfolios, MOOCs, etc.).	+			
86	8.	The University is obliged to demonstrate the focus of activities on the development of academic mobility, attracting the best foreign and domestic teachers		+		
87	9.	The university should demonstrate the involvement of each faculty member in promoting the culture of quality and academic integrity in the university, determine the contribution of the teaching staff, including invited faculty members, to the achievement of the objectives of the OP.		+		
88	10.	An important factor is the involvement of the teaching staff in the development of the economy, education, science and culture of the region and the country		+		
Total according to the standard			1	9		
Standard "Educational resources and student support systems"						
89	1.	The higher education institution should ensure that the infrastructure, educational resources, including material and technical resources, are in line with the objectives of the educational programme		+		
90	2.	The EP management should demonstrate the adequacy of classrooms, laboratories and other facilities with modern equipment to ensure the achievement of the EP objectives		+		

<i>The HEI should demonstrate the relevance of the information resources to the needs of the HEI and the curriculum, including in the following areas:</i>						
91	3.	technological support for learners and teaching staff in accordance with educational programmes (e.g. online learning, modelling, databases, data analysis software)		+		
92	4.	Library resources, including a collection of educational, methodological and scientific literature on general, basic and specialist subjects in hard copy and in electronic form, periodicals and access to scientific databases		+		
93	5.	Examination of the results of research projects, graduation theses and dissertations for plagiarism		+		
94	6.	access to educational Internet resources		+		
95	7.	WI-FI operation on their premises		+		
96	8.	The university should demonstrate that it creates conditions for scientific research, integration of science and education, publication of the results of the research work of the teaching staff, staff and students		+		
97	9.	The higher education institution should strive to ensure that the teaching equipment and software used for the study programmes are similar to those used in the relevant branches of the economy		+		
98	10.	EP management should demonstrate that procedures are in place to support different groups of learners, including information and counselling		+		
99	11.	The EP supervisors should demonstrate that the conditions are in place for the student to progress on an individual educational pathway		+		
100	12.	The university should take into account the needs of different groups of learners (adults, working, international learners and learners with special educational needs)			+	
101	13	The university should ensure that the infrastructure meets safety requirements		+		
Total according to the standard					12	1
The Public Information Standard						
102	1.	The HEI ensures that the information published is accurate, objective, up-to-date and reflects all the activities of the HEI within the educational programme		+		
103	2.	Public information should support and explain the national development programmes of the country and the higher and postgraduate education system		+		
104	3.	The HEI management should use a variety of ways to disseminate information (including media, web resources, information networks, etc.) to inform the general public and stakeholders	+			
<i>The information on the education programme is objective and up-to-date and should include</i>						
105	4.	the purpose and intended outcomes of the EP, the qualification to be awarded		+		
106	5.	Information and assessment of students' learning achievements		+		
107	6.	information on academic mobility programmes and other forms of cooperation with partner universities, employers		+		
108	7.	information on the development of students' personal and professional competences and employment opportunities		+		
109	8.	data reflecting the positioning of the EP in the education market (at regional, national, international level)		+		
110	9.	An important factor is the publication of reliable information on the teaching staff, broken down by personalities, in public resources			+	

111	10.	The HEI should publish on its own website the audited financial statements of the EP		+		
112	11.	The HEI should post information and links to external resources on the results of external evaluation procedures	+			
113	12.	An important factor is the posting of information on cooperation and interaction with partners, including research/consulting organisations, business partners, social partners and educational organisations		+		
Total according to the standard			2	9	1	
TOTAL			6	102	5	



Annex 2. PROGRAMME OF A VISIT TO AN EDUCATIONAL ORGANISATION

AGREED

Chairman of the Board - Rector

S.J. Rakhmetullina

"11" April 2023

APPROVED

Director General, Independent Accreditation and Rating Agency

A.B. Zhumagulova

"11" April 2023

PROGRAMME OF VISIT OF INDEPENDENT ACCREDITATION AND RATING AGENCY (IAAR) EXTERNAL EXPERT COMMISSION TO NJC"D. SERIKBAYEV EAST KAZAKHSTAN TECHNICAL UNIVERSITY" (SPECIALIZED AND PRIMARY SPECIALIZED ACCREDITATION)

Hybrid visit date: 25 - 27 April 2023

The programme is tailored to the time of the city of Ust-Kamenogorsk.

Cluster	Education programme
Cluster 1. Specialised accreditation	1) 6B04107 Social Media Marketing (joint educational programme with the International University of Information Technology) 2) 7M04107 Social Media Marketing (joint study programme with the International University of Information Technology)
Cluster 2. Primary specialised accreditation	3) 6B07109 Medical Engineering (Medical Technology) (joint educational programme with Semey Medical University) 4) 7M04102 Technological Entrepreneurship (joint educational programme with Karaganda University of Kazpotrebsoyuz)
Cluster 3. Primary specialized accreditation	5) 6B04109 Public financial management 6) 6B11202 Innovative safety management of natural and man-made emergencies
Cluster 4. Primary specialized accreditation	7) 6B07312 Land registry and planning 8) 7M11301 Transport, traffic and operations
Cluster 5. Specialised accreditation	9) 6B07309 BIM - technologies in design 10) 7M07312 Land registry and planning
Cluster 6. Specialised accreditation	11) 8D05401 Mathematics 12) 8D07103 Heat power engineering

<i>Date and time (Ust Kamenogorsk time, GMT+6)</i>	<i>The work of the EEC with the target groups</i>	<i>Position and name of target group participants</i>	<i>Place of procedure / Form of communication</i>
21 April 2023			
15.00-16.00	Pre-meeting of the EEC (discussion of key issues and programme of the visit)	IAAR external experts	Connect to the Zoom conference https://us02web.zoom.us/j/4941240662 Conference ID: 494 124 0662 (for EEC only)
Day 1: 25 April 2023			
10.00-10.30	Allocation of responsibilities to experts, dealing with organisational issues	IAAR external experts	Auditorium G-1-139 (19 Serikbaeva Street) Connect to the Zoom conference https://us02web.zoom.us/j/4941240662 Conference ID: 494 124 0662 (for EEC only)
10.30-11.00	Interview with the Chairman of the Board - Rector (The interview will be organised in a hybrid format: on-/off-line)	Rakhmetullina Saule Jadygerovna, PhD, Associate Professor, Chairman of the Board - Rector of "D. Serikbayev EKTU".	Auditorium G-1-101 (19 Serikbaeva St.) Connect to the Zoom conference https://us02web.zoom.us/j/4941240662 Conference ID: 494 124 0662
11.00-11.15	Technical break	IAAR external experts	Auditorium G-1-101

11.15-11.45	Interviews with Members Board of Vice-Chancellors (The interview will be organised in a hybrid format: on/off-line)	Member of the Board, Vice-rector for Academic Affairs of " D. Serikbayev EKTU" - Konurbayeva Jadyra Tusupkanovna, PhD, Associate Professor Member of the Board - Vice-rector for scientific and research activities Denisova Natalya Fedorovna, PhD in Physics and Mathematics, Associate Professor	Auditorium G-1-101 Connect to the Zoom conference https://us02web.zoom.us/j/4941240662 Conference ID: 494 124 0662
		3. member of the Board - vice-rector of planning and economic activity of "VKTU named after D. Serikbayev" - Beisembayeva Galiya Mustapayevna, Ph.	
11.45-12.00	Interviews with the Vice-Chancellors of partner universities (The interview will be organised in a hybrid format: on-/off-line)	1. Vice-Rector for Academic and Educational Activities of the International University of Information Technologies - Akkyz Kurakovna Mustafina, PhD, Associate Professor 2. Vice-Rector for Academic Affairs and Strategic Development, Karaganda Kazpotrebsoyuz University - Gulmira Yermekovna Nakipova, PhD, Professor 3. Vice-rector for Academic and Educational Work, Semey Medical University - Zhanargul Kayirgalievna Smailova, Ph.	Auditorium G-1-101 Connect to the Zoom conference https://us02web.zoom.us/j/4941240662 Conference ID: 494 124 0662
12.00-12.15	Technical break	IAAR external experts	Auditorium G-1-101
12.15-13.00	Interviews with heads of departments (Interviews will be organised in a hybrid format: on/off-line)	1. Head of Academic Affairs - Asiya Hasenovna Mashekenova, Ph. 2. Head of the Organisation and Monitoring of the Educational Process - Oxana Kasymovna Denisova, PhD, Associate Professor 3. Acting Head of the Registrar's Office - Meruert Sabyrovna Zhaijatyrova 4. Director of the Careers Centre - Svetlana Trofimenko 5. The head of the Admission Board is Gulnar Ersainovna Muslimanova, Ph. 6. Director of the Department of Scientific and Research	Auditorium G-1-101 Connect to the Zoom conference https://us02web.zoom.us/j/4941240662 Conference ID: 494 124 0662

		<p><i>Activities</i> - Gulzhaz Keneshankyzy Uazirkhanova, PhD, Associate Professor</p> <p>7. <i>Head of Centre "POSTGRADUATE"</i> - Elena Ivashchenko.</p> <p>8. <i>Head of International Cooperation</i> - Tair Anuarbekuly Mukhamadiev</p> <p>9. <i>Head of International Cooperation</i> - Tair Anuarbekuly Mukhamadiev</p> <p>10. <i>Head of Recruitment and Personnel Development</i> - Daniyarova Karlygash Manashevna</p> <p>11. Gulnara Nurtasovna Zhanabayeva, <i>Head of the Department of Social and Cultural Activity and Youth Policy</i></p> <p>12. <i>Chief accountant</i> - Natalya Viktorovna Vsekikh</p> <p>13. <i>Head of Development Strategy and Quality Assurance Department</i> - Daria Kamilievna Anop, PhD, Associate Professor</p> <p>14. <i>Head of Information Policy and Media Communication Centre (Media Centre)</i> Kasymova Karlygash Kanatovna</p> <p>14. <i>Head of Infrastructure Development</i> - Ulan Bulatovich Yedigenov</p> <p>15. <i>Head of the library</i> - Nazymgul Ernazarovna Tleubekova <i>Head of Support and Information Technology</i> - Vitaly Zuev</p>	
13.00-13.15	The work of the EEC	IAAR External Experts	<p>Auditorium G-1-139</p> <p>Connect to the Zoom conference https://us02web.zoom.us/j/4941240662 https://us02web.zoom.us/j/4941240662 Conference ID: 494 124 0662 (for EEC only)</p>
13.15-14.15	Lunch	IAAR external experts	Pomegranate Café

14.15-14.30	Technical break	IAAR external experts	Auditorium G-1-139 Connect to the Zoom conference https://us02web.zoom.us/j/4941240662 Conference ID: 494 124 0662 (for EEC only)
14.30-15.00	Interviews with deans/directors of institutes (schools) <i>(The interview will be organised in a hybrid format: on-/off-line)</i>	<ol style="list-style-type: none"> 1. <i>Deputy Dean of the Faculty of Basic Engineering Training</i> - Aringozhina Zarina Yerzhanovna 2. <i>Dean of the School of Information Technology and Intelligent Systems</i> - Saule Kumarganova, PhD, Associate Professor 3. <i>Dean of the School of Business</i> - Zakimova Alfiya Manarbekovna, PhD in Economics. 4. <i>Dean of the School of Nuclear and Conventional Energy Technology</i> - Akayev Aibek Muratbekovich, PhD 5. <i>Dean of the School of Metallurgy and Mineral Processing</i> - Onalbayeva Zhanar Sagidoldinovna, PhD 6. <i>Acting Dean of the School of Architecture and Construction</i> - Ayazhan Kalelkhanovna Aytkazina 7. <i>Deputy Dean of the School of Earth Sciences</i> - Zhanna Asylkhanova 8. <i>Deputy Dean School of Mechanical Engineering</i> - Baygereev Samat Rakimgalievich, PhD 	Auditorium G-1-101 Connect to the Zoom conference https://us02web.zoom.us/j/4941240662 Conference ID: 494 124 0662

15.00-15.10	Interviews with the deans/directors of the partner institution(s) <i>(The interview will be organised in a hybrid format: on-/off-line)</i>	<ol style="list-style-type: none"> 1. <i>Dean faculty digital transformation International University of Information Technology - Mukhamadieva Ardak Gabitovna</i> 2. <i>Dean of the Faculty of Economics, Management and Entrepreneurship Galiya Ilyasovna Gimranova, PhD in Economics, Professor, Karaganda University Kazpotrebsoyuz</i> 3. <i>Dean of the School of Public Health, Dentistry, Pharmacy and Nursing, Semey Medical University - Ynkar Akimzhanovna Kairkhanova, PhD</i> 	Auditorium G-1-101 Connect to the Zoom conference https://us02web.zoom.us/j/4941240662 Conference ID: 494 124 0662
15.10-15.25	Technical break	<i>IAAR external experts</i>	Auditorium G-1-101



<p>15.25-16.05</p>	<p>Interviews with heads of departments, heads of PGs (Concurrent) (The interview will be organised in a hybrid format: on-/off-line)</p>	<p>Heads of EP clusters 1, 2, 3, 6: <i>Head of EP 6B04107 Social Media Marketing, OP 6B04109 Public Financial Management - Guljan Alpekovna Baitikenova</i> <i>Head of EP 7M04107 Social Media Marketing, PG 7M04102 Technology Entrepreneurship - Madina Rakhimberdinova, PhD, Associate Professor</i> <i>Head of EP 6B07109 Medical Engineering (Medical Technology) - Orazova Araylym Zhanbolatkyzy</i> <i>Head of EP 6B11202 Innovative safety management of emergencies of natural and man-made character - Idrisheva Janat Kabylbekovna, Ph.</i> <i>Supervisor of EP 8D05401 Mathematics - Rakhmetullina Zhenisgul Toleukhanovna, Ph.</i> 6. <i>Head of EP 8D07103 Thermal Power Engineering - Segeda Tamara Aleksandrovna, PhD in Physics and Mathematics, Associate Professor</i> 7. <i>Head of the Foreign Languages Department - Khasenova Lira Nurlanovna</i> Head of department at partner universities: <i>Head of the Department "Media Communications and History of Kazakhstan" MUIT - Aigul Askarbekovna Niyazgulova, Ph.</i> <i>Karina Anvarovna Nevmatulina, PhD, Head of Department of Economics and Entrepreneurship, Kazpotrebsoyuz University</i> <i>Head of the Department of Physiological Disciplines named after Honored Scientist of the RK T.A. Nazarova NAO "SMU" - Rakhyzhanova Saule Oryngazyevna, Ph.</i> <i>Head of the Department of Biochemistry and Chemical Disciplines, NAO "SMU" - Rauza Romanovna Olzhaeva, Ph.</i></p>	<p>Auditorium G-1-101</p> <p>Connect to the Zoom conference https://us02web.zoom.us/j/4941240662 https://us02web.zoom.us/j/4941240662 Conference ID: 494 124 0662 (Zoom 1 session hall)</p>
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		Heads of EP clusters 4, 5 1. <i>Head of EP 6B07312 Land Cadastre and Land Management</i> - Gusarenko Yulia Dmitrievna 2. <i>Head of EP 7M11301 Organisation of transport, traffic and operation of transport</i> - Gulnur Nurlybekovna Konarbaeva 3. <i>Head of EP 6B07309 BIM - Technologies in Design</i> - Makhiev Bekbolat Yespulovich, PhD, Associate Professor 4. <i>Head of EP 7M07312 Land Cadastre and Land Management</i> - Marzhan Esenbekovna Rakhimberdina, PhD, Associate Professor	Connect to the Zoom conference https://us02web.zoom.us/j/4941240662 Conference ID: 494 124 0662 (Zoom 2 session hall)
16.05-16.20	Technical break	<i>IAAR external experts</i>	Auditorium G-1-101
16.20-17.00	Interviews with EP teachers <i>(The interview will be organised in a hybrid format: on-/off-line)</i>	Clusters 1, 2, 3, 6 <i>(Annex No. 1 List of the teaching staff to be interviewed)</i>	Auditorium G-1-101 Connect to the Zoom conference https://us02web.zoom.us/j/4941240662 Conference ID: 494 124 0662 (Zoom 1 session hall)
		Clusters 4, 5 <i>(Annex No. 1 List of the teaching staff to be interviewed)</i>	Connect to the Zoom conference https://us02web.zoom.us/j/4941240662 Conference ID: 494 124 0662 (Zoom 2 session hall)
17.00-17.15	Technical break	<i>IAAR external experts</i>	Auditorium G-1-139

17.15-18.30	Questionnaire survey of teaching staff (in parallel)	<i>All teachers of the assessed EPs (Appendix 1 .1 List of teaching staff for questionnaires)</i>	<i>The link to the questionnaire will be emailed to the teacher personally</i>
17.15-18.00	Visual inspection of the PA (Off-line inspection by participating experts)	<p>Cluster 2, 6 Cluster 3 6B11202 <i>Innovative safety management of natural and man-made emergencies</i></p> <p>Cluster 3 <i>Video (10-15 minute video on the infrastructure of EP 6B04109 Public Financial Management: classrooms, halls, laboratories, sports and other halls)</i></p> <p>Cluster 1, 4, 5 <i>Videos (10-15 minute video on EP infrastructure: classrooms, halls, laboratories, sports, etc.)</i></p>	<p>The itinerary is attached</p> <p>Viewing videos Auditorium G-1-139</p> <p>Connect to the Zoom conference https://us02web.zoom.us/j/4941240662 us02web.zoom.us/j/4941240662 Conference ID: 494 124 0662</p>
18.00-18.30	Summary of the first day's work of the EEC	<i>IAAR external experts</i>	<p>Auditorium G-1-139 Connect to the Zoom conference https://us02web.zoom.us/j/4941240662 us02web.zoom.us/j/4941240662 Conference ID: 494 124 0662 (For EEC only)</p>
18.30-19.30	Dinner	<i>IAAR external experts</i>	Cafe Brig
Day 2: 26 April 2023			

10.00-10.20	The work of the EEC	IAAR external experts	Auditorium G-1-139 Connect to the Zoom conference https://us02web.zoom.us/j/4941240662 Conference ID: 494 124 0662 (For EEC only)
10.20-11.00	Interviews with trainees (Interviews will be organised in a hybrid format: on-/off-line)	Clusters 1, 2, 3, 6 (Appendix No. 2 List of trainees)	Auditorium G-1-101 Connect to the Zoom conference https://us02web.zoom.us/j/4941240662 Conference ID: 494 124 0662 (Zoom 1 session hall)
		Clusters 4, 5 (Appendix No. 2 List of trainees)	Connect to the Zoom conference https://us02web.zoom.us/j/4941240662 Conference ID: 494 124 0662 (Zoom 2 session hall)
11.00-11.15	Technical break	IAAR external experts	Auditorium G-1-139
11.15-12.00	Survey of EP learners (in parallel)	All students in the assessed EP (Appendix 2.1 List of students in the EP for the questionnaire) (Ensure participation of at least 40% of the EP student population)	The link to the questionnaire will be emailed to the student personally
11.15-13.00	Working with documents (documents uploaded to cloud folders) and attendance of teaching staff on schedule Appendix 1.A	Cluster 1 Cloud link: https://drive.google.com/drive/folders/1utfAq-drive.google.com/drive/folders/1utfAq-IMTP1jwQdzDCiSNT-rRPhC2IMTP1jwQdzDCiSNT-rRPhC2k?usp=share_link Cluster 2 Cloud link: https://drive.google.com/drive/folders/IHxHWwE-	Attendance according to schedule Auditorium G-1-139 Connect to the Zoom conference https://us02web.zoom.us/j/4941240662

	<p>"Excerpt from EP clusters" with links to ZOOM (<i>off-line attendance by participating experts in traditional format</i>)</p>	<p>drive.google.com/drive/folders/1HxHWwE-anIoIoRdazqHSKR5JvPfl3anIoIoRdazqHSKR5JvPfl3zwQ?usp=share_link Cluster 3 Cloud link: https://drive.google.com/drive/folders/1ASMxu_n3L3FOC0ViKCq4FnMOZmmEb7A?usp=share_link Cluster 4 Cloud link: https://drive.google.com/drive/folders/17HLpZpMAvS23OAGAGAvS23OAGAG-QNsjvWppmECKkE?usp=share_link Cluster 5 Cloud link: https://drive.google.com/drive/folders/1H21ZWihAGK1NVBp_Oh9r0QdqZYZW43r?usp=share_link Cluster 6 Cloud link: https://drive.google.com/drive/folders/1Cde4NtJvSKbnbZvN9uK2B6bI0x4XQuTe?usp=share_link</p>	<p>Conference ID: 494 124 0662</p>
<p>13.00-14.00</p>	<p>Lunch</p>	<p><i>IAAR external experts</i></p>	<p>Pomegranate Café</p>
<p>14.00-16.00</p>	<p>Attendance at EP (in parallel)</p>	<p>Cluster 2, 6 Cluster 3 (<i>6B11202 Innovative safety management of natural and man-made emergencies</i>) <i>(Appendix 4.1 List of practice areas)</i></p>	<p>Itinerary of practice bases</p>

		<p>Cluster 3 <i>Link to video clip (10-15 minute clip on EP 6B04109 Practitioner Bases State financial management)</i> Clusters 1, 4, 5 <i>Link to video (10-15 minute video on the EP practice bases)</i></p>	<p>Watching videos on the practice bases Auditorium G-1-139 Connect to the Zoom conference https://us02web.zoom.us/j/4941240662 Conference ID: 494 124 0662</p>
<p>14.00-16.00</p>	<p>Working with documents (<i>documents uploaded to cloud folders</i>) and attending scheduled teaching sessions</p>	<p>Cluster 1 Cloud link: https://drive.google.com/drive/folders/1utfAq-drive.google.com/drive/folders/1utfAq-IMTP1jwQdzDCiSNT-rRPhC2IMTP1jwQdzDCiSNT-rRPhC2k?usp=share_link Cluster 2 Cloud link: https://drive.google.com/drive/folders/1HxHWwE-drive.google.com/drive/folders/1HxHWwE-anIoIoRdazqHSKR5JvPfl3anIoIoRdazqHSKR5JvPfl3zwQ?usp=share_link Cluster 3 Cloud link: https://drive.google.com/drive/folders/1ASMxu_n3drive.google.com/drive/folders/1ASMxu_n3L3FOC0ViKCq4FnMOZmmEb7L3FOC0ViKCq4FnMOZmmEb7AA?usp=share_link Cluster 4 Cloud link: https://drive.google.com/drive/folders/17HLpZpMdrive.google.com/drive/folders/17HLpZpMAvS23OAGAGAvS23OAGAG-QNsivWppmECKke?usp=share_link Cluster 5 Cloud link: https://drive.google.com/drive/folders/1H21ZWihadrive.google.com/drive/folders/1H21ZWihaAGK1NVBp_Oh9r0QdqZYZW43AGK1NVBp_Oh9r0QdqZYZW43r?usp=share_link Cluster 6 Cloud link:</p>	<p>Auditorium G-1-139 Connect to the Zoom conference https://us02web.zoom.us/j/4941240662 Conference ID: 494 124 0662</p>

		https://drive.google.com/drive/folders/1Cde4NtJvSdrive.google.com/drive/folders/1Cde4NtJvSKbnbZvN9uK2B6bI0x4KbnbZvN9uK2B6bI0x4XQuTe?usp=share_link	
16.00-16.15	Technical break	<i>IAAR external experts</i>	Auditorium G-1-139
16.15-17.00	Interviews with EP alumni <i>(The interview will be organised in a hybrid format: on-/off-line)</i>	<i>Graduates of EP Clusters 1, 5, 6</i> <i>(Appendix No. 3 List of graduates of the EP)</i>	Auditorium G-1-101 Connect to the Zoom conference https://us02web.zoom.us/j/494124062us02web.zoom.us/j/4941240662 Conference ID: 494 124 0662 <i>(Zoom 1 session hall)</i>
17.00-17.10	Technical break	<i>IAAR external experts</i>	Auditorium G-1-101
17.10-17.50	Interviews with EP employers <i>(The interview will be organised in a hybrid format: on-/off-line)</i>	<i>Employers of EP Clusters 1, 5, 6</i> <i>(Annex No. 4 List of EP employers)</i>	Auditorium G-1-101 Connect to the Zoom conference https://us02web.zoom.us/j/494124062us02web.zoom.us/j/4941240662 Conference ID: 494 124 0662 <i>(Zoom 1 session hall)</i>
16.15-17.50	Individual work by EEC experts (in parallel)	<i>External experts IAAR clusters 2, 3, 4</i> <i>Continue working with the documents</i>	Auditorium G-1-139 Connect to the Zoom conference https://us02web.zoom.us/j/494124062us02web.zoom.us/j/4941240662 Conference ID: 494 124 0662 <i>(Zoom 2 session hall)</i>

17.50-20.00	EEC work: summing up of the second day and discussion of profile parameters <i>(recording in progress)</i>	<i>IAAR external experts</i>	Auditorium G-1-139 Connect to the Zoom conference https://us02web.zoom.us/j/4941240662 Conference ID: 494 124 0662 (For VEC only)
20.00-21.00	Dinner	<i>IAAR external experts</i>	Cafe Brig
Day 3: 27 April 2023			
10.00-11.30	Work of the EEC: Development and discussion of recommendations <i>(recording under way)</i>	<i>IAAR external experts</i>	Auditorium G-1-139 Connect to the Zoom conference https://us02web.zoom.us/j/4941240662 Conference ID: 494 124 0662 (for EEC only)
11.30-11.45	Technical break	<i>IAAR external experts</i>	Auditorium G-1-139
11.45-13.00	The work of the EEC: developing and discussing recommendations	<i>IAAR external experts</i>	Auditorium G-1-139 Connect to the Zoom conference https://us02web.zoom.us/j/4941240662 Conference ID: 494 124 0662 (for EEC only)
13.00-14.00	Lunch	<i>IAAR external experts</i>	Pomegranate Café
14.00-15.45	Work of the EEC: Decision-making by voting <i>(recording is in progress)</i>	<i>IAAR external experts</i>	Auditorium G-1-139 Connect to the Zoom conference https://us02web.zoom.us/j/4941240662 Conference ID: 494 124 0662 (for EEC only)

15.45-16.00	Technical break	<i>IAAR external experts</i>	Auditorium G-1-139
16.00-16.30	Final EEC meeting with university management	<i>University management, EP managers, External IAAR experts</i>	Auditorium G-1-101 Connect to the Zoom conference https://us02web.zoom.us/j/4941240662 Conference ID: 494 124 0662
16.30-18.00	Summing up the work of the EEC	<i>IAAR external experts</i>	Auditorium G-1-139 Connect to the Zoom conference https://us02web.zoom.us/j/4941240662 Conference ID: 494 124 0662 (for EEC only)
18.00-19.00	Dinner	<i>IAAR external experts</i>	Cafe Brig
Off-line expert visit on 28 April 2023			

Annex 3. RESULTS OF THE TEACHING STAFF QUESTIONNAIRE

1. total number of questionnaires: 57

2. Position

Professor	10 people	17,5%
Associate Professor	11 people	19,3 %
Aga Okytushy (Senior Lecturer)	18 people	31,6 %
Okytushy (Teacher)	11 people	19,3 %
Head of Department	3 people	5,3 %
Associate Professor	2 persons	3,4 %
Head of CC Environment and WBCs	1 person	1,8 %
Acting Associate Professor	1 person	1,8 %

3. Academic degree, academic rank

ҚР еңбек сіңірген қайраткері (Honoured Worker of the Republic of Kazakhstan)	0 people	0 %
Ғылым докторы (Ph.D.)	3 people	5,3 %
Ғылым кандидаты (PhD)	20 people	35,1%
Master	17 people	29,8 %
PhD	13 people	22,9 %
Professor	1 person	1,8 %
Associate Professor	8 people	14 %
No (Жоқ)	4 people	7 %
Associate Professor	1 person	1,8 %

4. Length of service

Less than 1 year	1 person	1,8 %
1 year - 5 years	7 people	12,3 %
Over 5 years	49 people	86 %

№	Questions	Very good	Good	Relatively bad	Bad	Too bad.	No answer
6	To what extent does the content of the study programme meet your academic and professional interests and needs?	42 people (73,7 %)	15 people (26,3 %)	0 people (0 %)	0 people (0 %)	0 people (0 %)	-
7	How do you assess the opportunities provided by the HEI for the professional development of the teaching staff?	32 people (56,1 %)	25 people (43,9%)	0 people (0 %)	0 people (0 %)	0 people (0 %)	-
8	How do you assess the opportunities provided by the HEI for the career development of teaching staff?	26 people (45,6 %)	30 people (52,6 %)	1 person (1,8 %)	0 people (0 %)	0 people (0 %)	-
9	How do you assess the degree of academic freedom of the teaching staff	23 people (40,4 %)	33 people (57,9 %)	1 person (1,8 %)	0 people (0 %)	0 people (0 %)	-
	The extent to which teachers can use their own						
10	Strategies	35 people (61,4 %)	22 people (38,6%)	0 people (0 %)	0 people (0 %)	0 people (0 %)	-
11	Methods	42 people (73,7 %)	15 people (26,3 %)	0 people (0 %)	0 people (0 %)	0 people (0 %)	-
12	Innovation in the learning process	40 people (70,2 %)	17 people (29,8 %)	0 people (0 %)	0 people (0 %)	0 people (0 %)	-
13	How do you rate the organisation of medical care and disease prevention at the university?	39 people (68,4 %)	16 people (28,1 %)	2 people (3,5%)	0 people (0 %)	0 people (0 %)	-
14	How is the institution's management paying attention to the content of the education programme?	36 people (63,2 %)	21 people (36,8 %)	0 people (0 %)	0 people (0 %)	0 people (0 %)	-

15	How would you rate the sufficiency and accessibility of the necessary scientific and educational literature in the library?	32 people (56,1 %)	23 people (40,4 %)	2 people (3,5%)	0 people (0 %)	0 people (0 %)	-
16	What is the level of provision that takes into account the needs of different groups of learners?	29 people (50,9 %)	28 people (49,1 %)	0 people (0 %)	0 people (0 %)	0 people (0 %)	-
	Assess the accessibility of the manual						
17	For students	40 people (70,2 %)	17 people (29,8 %)	0 people (0 %)	0 people (0 %)	0 people (0 %)	-
18	Teachers	40 people (70,2 %)	16 people (28,1 %)	1 person (1,8 %)	0 people (0 %)	0 people (0 %)	-
19	Assess the involvement of the teaching staff in the management and strategic decision-making process	22 people (38,6 %)	33 people (57,9 %)	2 people (3,5%)	0 people (0 %)	0 people (0 %)	-
20	How are teaching staff encouraged to innovate?	22 people (38,6 %)	34 people (59,6 %)	1 person (1,8 %)	0 people (0 %)	0 people (0 %)	-
21	Evaluate the level of feedback from the management	31 people (54,4%)	26 people (45,6 %)	0 people (0 %)	0 people (0 %)	0 people (0 %)	-
22	What is the level of encouragement and involvement of young professionals in the educational process?	25 people (43,9 %)	31 people (54,4%)	0 people (0 %)	1 person (1,9 %)	0 people (0 %)	-
23	Evaluate the opportunities created for professional and personal growth for each teacher and staff member	32 people (56,1 %)	23 people (40,4%)	1 person (1,8 %)	1 person (1,9 %)	0 people (0 %)	-
24	Assess the adequacy of the recognition of teachers' capacities and abilities	25 people (43,9 %)	32 people (56,1 %)	0 people (0 %)	0 people (0 %)	0 people (0 %)	-
	How the work is delivered						
25	• On academic mobility	20 people (35,1 %)	33 people (57,9 %)	4 people (7 %)	0 people (0 %)	0 people (0 %)	-
26	• On professional development of teaching staff	26 people (45,6 %)	27 people (47,4 %)	4 people (7 %)	0 people (0 %)	0 people (0 %)	-
	Appreciate the support of the university and its management						
27	• Faculty research initiatives	26 people (45,6 %)	31 people (54,4%)	0 people (0 %)	0 people (0 %)	0 people (0 %)	-
28	• Development of new educational programmes/training courses/methods	30 people (52,6 %)	27 people (47,4 %)	0 people (0 %)	0 people (0 %)	0 people (0 %)	-
	Assess the level of faculty's ability to combine teaching						
29	• With scientific research	25 people (43,9 %)	29 people (50,9 %)	3 people (5,3 %)	0 people (0 %)	0 people (0 %)	-
30	• With practical activities	21 people (36,8 %)	31 people (54,4%)	5 people (8,8%)	0 people (0 %)	0 people (0 %)	-
31	Assess whether the knowledge students receive at the university is in line with the realities of today's labour market	31 people (54,4%)	26 people (45,6 %)	0 people (0 %)	0 people (0 %)	0 people (0 %)	-
32	How do the university management and administration take criticism?	14 people (24,6%)	43 people (75,4 %)	0 people (0 %)	0 people (0 %)	0 people (0 %)	-
33	Assess the extent to which your workload matches your expectations and abilities	21 people (36,8 %)	29 people (50,9 %)	7 people (12,3 %)	0 people (0 %)	0 people (0 %)	-
34	Assess the focus of educational programmes/ curricula on providing students with the ability to analyse situations and make predictions	25 people (43,9 %)	32 people (56,1 %)	0 people (0 %)	0 people (0 %)	0 people (0 %)	-
35	Assess the extent to which the content and quality of the educational programme meets the expectations of the labour market and employers	29 people (50,9 %)	28 people (49,1 %)	0 people (0 %)	0 people (0 %)	0 people (0 %)	-

36. Why do you work at this particular university?

1. The leading technical university of the country, which is the center of advanced engineering education.
2. There is an opportunity to teach in English
3. I am a graduate of this university
4. Strong and promising university
5. I like pedagogical activity and the opportunity to do research and development.
6. Good pay and opportunity for personal growth, as well as the realization of scientific interests
7. Жақсы жалақы, жақсы жұмыс шарт -жағдайы
8. My native university, I opened the specialty "Urban Cadastre" in this university, the university creates all conditions for teaching, scientific activity.
9. Ақпараттық технологиялармен тығыз байланысы, қызметтік өсуге жағдай жасалуы, білім берудің практикалық бағытының басымдығы

37. How often do your course include master classes and reading topics with practitioners?

Өте жиі (very often)	11 people	19,3 %
Жиі (often)	31 people	54,4 %
Кейде (sometimes)	14 people	24,6 %
Өте сирек (very rare)	1 person	1,8 %
Мүлдем болмайды (never)	0 people	0 %

38. How often are external trainers (domestic and foreign) involved in the training process?

Өте жиі (очень часто)	20 чел.	35,1 %
Жиі (часто)	28 чел.	49,1 %
Кейде (иногда)	9 чел.	15,8 %
Өте сирек (очень редко)	0 чел.	0 %
Мүлдем болмайды (никогда)	0 чел.	0 %

39. How often do you encounter the following problems in your work: (please give an answer on each line)

	Often	Sometimes	Never	No answer
Lack of classrooms	0 people (0 %)	24 people (42,1 %)	33 people (57,9%)	-
Imbalance in teaching load by semester	3 people (5,3 %)	38 people (66,7 %)	16 people (28,1 %)	-
Inaccessibility of necessary literature in the library	0 people (0 %)	22 people (38,6 %)	35 people (61,4 %)	-
Overcrowding in study groups (too many students per group)	0 people (0 %)	7 people (12, %)	50 people (87,7 %)	-
Inconvenient timetable	0 people (0 %)	25 people (43,9 %)	32 people (56,1 %)	-
Inadequate classroom facilities	0 people (0 %)	20 people (35,1%)	37 people (64, 9%)	-
Lack of internet access/weak internet	0 people (0 %)	26 people (45,6 %)	31 people (54,4 %)	-
Lack of student interest in learning	0 people (0 %)	26 people (45,6 %)	31 people (54,4 %)	-
Failure to receive information on events in a timely manner	0 people (0 %)	12 people (21,1 %)	45 people (78,9 %)	-
Lack of technical facilities in classrooms	2 people (3,5 %)	35 people (61,4 %)	20 people (35,1%)	-
other problems	<ul style="list-style-type: none"> • - No. • - no problems • - No obvious problems • - Technical equipment • - There are no problems, if any, they are solved privately, very quickly and all the needs of the teacher regarding the educational process are satisfied. • - Мәселе жоқ • - There are no such problems • - No problems • - zhok • - None 			

	<ul style="list-style-type: none"> • - There are no problems • - No warm water in winter for hand washing • - Insufficient equipment with program products <p>Бәрі жақсы</p> <ul style="list-style-type: none"> • - Quite long approval of documents in the Directum system • - No special technical and organizational problems • - No unsolvable problems. All are solved gradually or in operative mode, as necessary <p>Қазақ тіліндегі мамандандырылған әдебиеттердің аз болуы</p> <p>Пәндер бойынша кейде қазақша оқулықтардың жетіспеушілігі</p> <p>Оқу барысында қолданылатын қазақша әдебиеттердің аздығы</p> <p>Қазақ тілінде әдебиеттердің аздығы</p> <ul style="list-style-type: none"> • - Not all classrooms have excellent internet access • - Technical equipment • - No problems • - Lots of paperwork that could be converted to electronic form • - Lack of computer classrooms • - It is desirable to install graphic tablets connected to PC and projector in lecture rooms • - Difficulties in acquiring necessary materials for scientific work through public procurement. • - no problems. • - There are no special problems, something small happens • - In some classrooms the Internet is weak • - I would like to have 13 salaries. • - Resolved as they arise • - The growth of the number of students does not keep up with the material support, it is necessary to solve the issues of the classroom fund. <p>Айтарлықтай мәселе жоқ. Студенттік жатақхананың болмауы</p>
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40. There are many different facets and aspects of university life that affect every teacher and staff member in one way or another. Assess how satisfied you are:

Question	Fully satisfied	Partially satisfied	Not satisfied	Difficult to answer
The attitude of the university authorities towards you	43 people (75,4%)	13 people (22,8 %)	1 person (1,8 %)	0 people (0 %)
Relationships with line management	52 people (91,2 %)	5 people (8,8 %)	0 people (0 %)	0 people (0 %)
Relationships with colleagues in the department	55 people (96,5%)	2 people (3,5 %)	0 people (0 %)	0 people (0 %)
Participation in management decisions	41 people (71,9 %)	14 people (24,6 %)	0 people (0 %)	2 people (3,5 %)
Relationships with students	55 people (96,5%)	2 people (3,5 %)	0 people (0 %)	0 people (0 %)
Recognition of your successes and achievements by the administration	44 people. (77,2%)	12 people. (21,1 %)	1 person. (1,8 %)	0 people. (0 %)
Supporting your suggestions and comments	44 people. (77,2%)	12 people. (21,1 %)	0 people. (0 %)	1 person. (1,8 %)
The activities of the university administration	39 people. (68,4%)	17 people. (29,8 %)	0 people. (0 %)	1 person. (1,8 %)
Terms of remuneration	26 people. (45,6 %)	29 people. (50,9 %)	1 person. (1,8 %)	1 person. (1,8 %)
The working conditions, range and quality of services provided at the HEI	47 people. (82,5%)	9 people. (15,8 %)	0 people. (0 %)	1 person. (1,8 %)
Occupational health and safety	48 people. (84,2 %)	9 people. (15,8 %)	0 people. (0 %)	0 people. (0 %)
Managing change in HEI activities	40 people. (70,2 %)	16 people. (28,1 %)	1 person. (1,8%)	0 people. (0 %)
The provision of a social package: holidays,	22 people.	26 people.	4 people.	5 people.

spa treatment, etc.	(38,6 %)	(45,6 %)	(7 %)	(8,8 %)
The organisation and quality of catering in higher education	42 people. (73,2 %)	15 people. (26,3 %)	0 people. (0 %)	0 people. (0 %)
The organisation and quality of health services	44 people. (77,2%)	12 people. (21,1 %)	1 person. (1,8 %)	0 people. (0 %)



Annex 4: RESULTS OF STUDENT ANSWERING*Questionnaire for students***Total number of questionnaires: 177**

6B04107 Social media marketing	8	4,52%
7M04107 Social media marketing	2	1,13%
6B07109 Medical Engineering (Medical Technology)	11	6,21%
7M04102 Technology entrepreneurship	4	2,26%
6B04109 Public financial management	27	15,25%
6B11202 Innovative safety management of natural and man-made emergencies	10	5,65%
6B07312 Land registry and planning	84	47,46%
7M11301 Transport, traffic and operations	4	2,26%
6B07309 BIM - technologies in design	6	3,39%
7M07312 Land registry and planning	13	7,34%
8D05401 Mathematics	2	1,13%
8D07103 Thermal power engineering	6	3,39%

Paul:

Men's	60,5
Women's	39,5

Assess how satisfied you are:

Questions	Fully satisfied	Partially satisfied	Partially dissatisfied	Not satisfied	Difficult to reply
1. Relationship with the dean's office (school, faculty, department)	85,9	14,1			
2. The level of accessibility of the deanery (school, faculty, department)	84,7	13,6	1,7		
3. Level of accessibility and responsiveness of management (university, school, faculty, department)	83,6	14,7	1,1	0,6	
4. Availability of academic counselling	80,2	18,7			1,1
5. Support with training materials during the training process	78,5	18,1	3,4		
6. Accessibility of counselling on personal problems	73,4	19,3	5,6	0,6	1,1
7. The relationship between student and teacher	78,5	18,7	2,8		
8. The activities of the financial and administrative services of the institution	70,6	22,6	3,4	1,1	2,3
9. Accessibility of health services	73,4	19,7	2,3	0,6	4
10. The quality of medical care at the university	69,5	22	1,7	1,7	5,1
11. The level of availability of library resources	91	7,3	1,1	0,6	
12. The quality of services provided in libraries and reading rooms	87	10,2	1,7	1,1	
13. The existing teaching resources of the HEI	86,4	11,3	1,7		0,6
14. Accessibility of computer labs	74	19,2	3,4	1,7	1,7
15. Accessibility and quality of Internet resources	71,2	20,9	5,1	1,7	1,1
16. The content and information content of the website of educational organisations in general and faculties (schools) in particular	89,3	9,6	1,1		
17. Study rooms, classrooms for large groups	77,4	17,5	2,8	1,7	0,6
18. Student lounges (if available)	76,3	17,4	1,7	0,6	4
19. The clarity of the procedures for taking disciplinary action	79,7	15,8	1,7		2,8
20. The quality of the educational programme as a whole	83,6	14,7	1,7		
21. The quality of the curriculum in the OP	81,9	16,9	0,6	0,6	
22. Teaching methods in general	75,7	20,9	1,7	1,7	
23. Responsiveness to feedback from teachers on the learning process	79,7	17,5	1,7		1,1
24. The quality of teaching in general	83,1	15,2	1,7		
25. The academic workload/requirements of the student	71,2	21,5	5,6	1,1	0,6
26. The requirements of the teaching staff for the student	79,1	15,2	2,3		3,4
27. Informational support and clarification before enrolling in a university of the	85,3	10,7	2,3	1,1	0,6

rules of admission and the strategy of the educational programme (speciality)					
28. Informing the requirements for successfully completing a given educational programme (speciality)	86,4	11,3	1,7	0,6	
29. The quality of examination materials (tests and examination questions, etc.)	80,8	17,5	0,6		1,1
30. Objectivity in the assessment of knowledge, skills and other learning achievements	79,1	16,5	2,2	2,2	
31. Available computer labs	73,5	22	1,7	1,7	1,1
32. Available research laboratories	74,8	17,8	2,3	1,1	4
33. Objectivity and fairness of teachers	71,2	22	5,1		1,7
34. Informing students about courses, study programmes and academic degrees	85,8	9,6	2,3	0,6	1,7
35. Providing students with dormitory accommodation	76,2	11,3	2,3		10,2

Assess how much you agree:

Approval	Full consent	Agreed	Partly agree	Disagree	Full dissent	No answer
36. The course programme was clearly presented	78	17,5	4,5			
37. The course content is well structured	73,4	19,8	6,2	0,6		
38. The key terms are sufficiently explained	68,9	27,7	3,4			
39. The material presented by the teacher is up-to-date and reflects the latest scientific and practical developments	67,8	26	6,2			
40. The teacher uses effective teaching methods	64,4	25,4	7,9	1,7	0,6	
41. The teacher is familiar with the material being taught	74	22,6	3,4			
42. The teacher's presentation is clear	68,4	25,4	6,2			
43. The teacher presents the material in an interesting way	61,5	23,2	12,4	2,3	0,6	
44. Objectivity in assessing knowledge, skills and other learning achievements	62,7	24,3	9,6	3,4		
45. Timeliness of assessment of students' learning achievements	63,8	26,6	7,9	1,7		
46. The teacher meets your requirements and expectations for professional and personal development	63,3	27,7	7,3	1,7		
47. The teacher encourages students to be active	63,9	23,7	11,3	1,1		
48. The teacher encourages students to think creatively	59,8	26,6	11,3	1,7	0,6	
49. The appearance and mannerisms of the teacher are adequate	72,3	25,4	1,7	0,6		
50. The teacher shows a positive attitude towards the students	67,8	22,6	9,6			
51. The assessment system (seminars, tests, questionnaires, etc.) reflects the content of the course	71,7	24,9	2,8	0,6		
52. The assessment criteria used by the teacher are clear and accessible	72,3	22,6	5,1			
53. The teacher objectively assesses the students' achievements	65,5	24,3	9,6	0,6		
54. The teacher is proficient in professional language	75,6	21,5	2,3	0,6		
55. The organisation of education provides sufficient opportunity for sports and other leisure activities	71,2	21,5	5,6	1,1	0,6	
56. Facilities and equipment for students are safe, comfortable and modern	68,9	20,9	8,5	1,1	0,6	
57. The library is well equipped and has a sufficient collection of scientific, educational and methodological literature	79,1	16,9	2,8	1,1		
58. Equal opportunities for learning and personal development are provided to all students	76,8	19,8	1,1	2,3		

Other problems regarding the quality of teaching:

- -
- Жоқ
- Мәселелер жоқ
- проблем нет
- Нет проблем относительно качества преподавания
- Ешқандай мәселе жоқ, бәрі өте жоғарғы деңгейде.
- Басқа мәселелер байқалмады, қалғанымен толықтай келісемін
- Оқыту сапасына қатысты мәселелер жоқ
- Жоқ
- Жоқ)

- жоқ
- Жатақхана туралы сауалнама
- Нет проблемы
- .
- Барлығы жақсы жасалған ал сұрақтар туындаса куратор деканат арқылы шешуге болады әзірге сұрақтар мәселер жоқ осы оқу орнына ризамын
- Менің ойымша аудиторияларда материалдық базаны бірнеше есе жақсартса.
- Никаких проблем не.
- В Университете требуется ремонт!
- Мені университетімнің оқу сапасы қанағаттандырады!
- Білім беру бағдарламасы мен университет оқытуына көңілім толықтай толады. Менің ойымша, аудитория мен материалдық базаларды жақсартса деп ойлаймын.
- Проблем нет.
- Нет проблем
- Не имеются
- Барлығы қолжетімді және сапалы, 1-курс болғандықтан әлі біраз ақпаратпен танысу керек
- Мәселе жоқ , оқу сапасы жақсы
- Всё отлично
- Мәселе жоқ
- Нет предложений
- Біздің мамандық бойынша білім беру сапасы өте жақсы ! Мен осы білім беретін университетке түскеніме қуанамын !
- Ешқандай мәселе жоқ
- большая часть преподавателей не любит активистов универа, хотя активисты очень поднимают универ не хуже любых лабораторий или открытий
- Креативность и умение привлечь внимание
- Нет
- Не доволен расписанием
- Нету
- Нет
- Проблем нет. Отличный преподавательский состав.
- Учителя бывают некомпетентны
- Білім алуға қызықтыратын шаралар ұйымдар жарыстар жоқ деуге болады,сапасы нашар болсада. Техникалық мамандық қызықсыз көрінеді оқу барысы.Универде өзінді табуға арналған қосымша круттар аз.Группалық тимбилдинг жиналу саяхаттау нетворкинг аз.Мейрамдар атмосферасы сезілмейді. Өзге универлерге бару жарысқа қатысу үшін тек ең мықтылар ғана барады оның өзінде өзіне сенімді. Ал көпшілігі жай студент болып қалады.ашылуға мүмкіндік аз
- Никаких проблем не замечал
- Басқа мәселелер жоқ
- если говорить про преподавание именно в моей школе то тут проблем вообще нет, но вот предметы которые не относятся к моей профессии это полный бред. Какого черта меня напрягают не нужными абсолютно предметами когда я поступал именно на профессию, я трачу невероятное количество сил для того что бы сдать не нужный предмет что бы меня не отчислили, вау это так круто. Для того что бы изучать всё остальное я могу уйти обратно в школу, этот бред в универе не нужен он только тратит время студента а особенно нервы, я потерял интерес к учебе из-за того что мне суют под нос вообще не те предметы которые должны быть, 1 курс это просто куча наваленного чего то для галочки.