

**REPORT  
FOR THE 2023-2024 ACADEMIC YEAR**

**Ekibastuz, 2024**

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# 1. General characteristics and organizational and managerial structure of the Institute

The educational institution "Ekibastuz Engineering and Technical Institute named after Academician K.I. Satpayev" (hereinafter the Institute) is a subject of higher education of the Republic of Kazakhstan and operates on the basis of the Charter and state license.

EITI named after Academician K. Satpayeva is the only university in the Ekibastuz region, which over 30 years of existence has trained more than 9,500 qualified specialists for the fuel and energy complex of the region and the country.



Figure 1 - Organizational structure of the EITI named after academician K.Satpayev

The Institute maintains creative ties and business relations with many leading universities and scientific and educational centers of the CIS and far abroad. During this time, the Institute has established partnerships with more than 20 universities in the near and far abroad and is the owner of the international award "EUROPEN QUALITY" (European quality), received in Oxford, Great Britain.

The Institute's activities are primarily aimed at ensuring a high level of student training, in accordance with the requirements of legislation in the field of education, the demands of the labor market and focuses on the quality of knowledge and student-centered organization of the educational process.

In 2024, the Institute took 13th place among universities of the Republic of Kazakhstan according to the rating conducted by the League of Academic Integrity.

One of the key priorities of the EITI named after Academician K. Satpayev's goal is to ensure the employment of graduates, which is more than 92%, which has been repeatedly noted by high positions in the ranking of universities conducted by NCE "Atameken", in whose ratings our OPS are in the TOP 10 in the Republic of Kazakhstan.

This is facilitated by close cooperation with enterprises in the region, which make an invaluable contribution to the development of the higher education system.

The Institute has introduced and is constantly improving the credit technology of education in all specialties and educational programs in all forms of education, ensuring the development of students' independence and individualization of their education. The training is conducted in the state and Russian languages.

The number of teaching staff for the 2023-2024 academic year is 119 teachers (78 staff), including 3 doctors of sciences, 35 candidates of sciences, 3 PhD doctors, 24 masters of sciences. There are 1,343 full-time students enrolled in 22 educational programs, including 29 students studying under the State Educational Order, 16 students studying at the expense of the charitable program "Educational Grants of Kazakspan Khalkyna", and 1,298 on a paid basis.

The Institute has modern educational and scientific equipment that meets the best international and domestic standards, ensuring the provision of high-quality educational services and the implementation of the mission, goals and objectives of the university. Over the years, the developed infrastructure of the university has been created, including three academic buildings with a total area of 9883.6 sq.m., which house classrooms, educational and scientific laboratories, classrooms, workshops, 3 gyms, catering and medicine facilities, an assembly hall, as well as student dormitories.

The base for all types of practices is expanded annually. The Institute has branches at the leading enterprises of the region, on the basis of which practical training of students is carried out, including: Bogatyr Komir LLP, Vostochny section, B.Nurzhanov GRES-1, GRES-2, Prommashkomplekt LLP, PavlodarEnergo LLP, Gidroprom LLP, KEGOC; "Astana Kala Kurylys", JSC "NC KTZ" - "Ekibastuz operational wagon depot", LLP "Nar-Trans", LLP "Electroservice", LLP "Tamyр", JSC "Aluminum of Kazakhstan", JSC "Gorelektroset", JSC "AK Altynalmas", JSC "Maykain gold", JSC Halyk Bank of Kazakhstan, Forte bank and others that correspond to the profile of student training and whose representatives are members of the Supervisory Board of the Institute and actively participate in the activities of the Institute.

Over the past year, 1 meeting of the Supervisory Board was held, where the rector made a report on the past academic year, and also discussed issues on further cooperation between the University and enterprises.

The practice of employers' participation in the educational activities of the Institute is constantly expanding, issues of financing and tuition fees are being jointly resolved in the development of the content and organization of the educational process. The successful development of mutual relations allows the Institute not only

to improve educational programs, but also to take into account the needs and requirements of enterprises and organizations when introducing new specializations and opening new educational programs based on a competence-based approach.

In addition, international cooperation with universities is expanding annually, namely:

Kuzbass State Technical University named after T.F. Gorbachev in Prokopyevsk, with which 7 students participated in academic mobility.

Novosibirsk State Technical University – 2 students.

## **2. Human resources potential**

Realizing the high degree of responsibility for the quality of the knowledge, skills and abilities provided, the Institute pays great attention to the selection of professional teaching staff and the creation of favorable conditions for the effectiveness of their work.

The management of the Institute pays considerable attention to the issues of unity of team members, prevention of conflicts of interest and relationships, motivation of responsible attitude to professional activity. For this purpose, the provision "Code of Corporate Culture" has been developed and is functioning. The resolution of the conflicts that have arisen is carried out, as a rule, by conducting constructive negotiations with the participation of the parties to the conflict. When considering conflicts involving students, first of all, the rights and legitimate interests of students are taken into account. The rights and obligations of students are specified in detail in the contracts for the provision of educational services concluded with students, developed internal regulations. The rector's blog is available on the official website for contacting students and staff. To receive information when dealing with complaints and suggestions from staff and students, it uses special boxes installed in public areas, feedback is provided at the level of the distance learning platform, both at the level of the moderator and each individual teaching staff. The mechanisms for detecting conflicts are statements by teaching staff, employees and students, official and memo notes, personal appeal to the head, anonymous appeals.

The Institute has been provided with human resources with academic degrees and titles for at least 40% of the total number of university teaching staff over the past five years. This is 10% higher than the minimum qualification requirements, which define the level of graduation for Institutions of at least 30%.

Experienced production specialists corresponding to the 8th level of the National Qualifications Framework are involved in lecturing and (or) conducting other types of training sessions.

Teaching staff and the management of the Institute have access to professional development resources. In 2024, 9 certificates for advanced training of university teaching staff were received.

The faculty and staff of the Institute work closely with the administration of the Institute, which provides all kinds of moral, material and, if necessary, psychological support. The Institute covers: the costs of professional development of staff and teaching staff, including travel expenses; printing costs for the publication of

educational and teaching materials; mobility costs for both teaching staff and students of the Institute.

The Institute has developed motivation mechanisms for teachers and staff for high pedagogical skills, scientific results and dedication, and the development of a culture of quality. Every year, at the ceremony of the traditional international scientific and practical conference on improving quality in education, faculty and staff of the Institute are awarded, in accordance with the results of the work for the current academic year. The city administration and corporate partners, represented by the largest enterprises in the region, join in encouraging employees and teaching staff.

The teaching staff, along with the educational process, conducts continuous research activities. Thanks to the creative approach of the teaching staff, innovative teaching technologies and scientific research prevail at the Institute. More than a third of the teachers have patents, author's certificates and are actively engaged in research activities. The contribution of the Institute's teachers to the development of science is appreciated at the highest level.

The teachers of the Institute are participants in the republican competition "The best university teacher", are awarded the presidential scholarship "Bolashak", are regularly awarded Letters of Thanks from the Akimat, Maslikhat of the city, the AMANAT party, have certificates of Accreditation as a subject of scientific and scientific-technical activity, have patents, copyright certificates, take part in contractual, grant scientific- research works.

### **3. Educational work**

The academic policy of the Institute is aimed at providing student-centered learning. The academic policy of the university reflects the rules and regulations governing all stages of the student's "life cycle". The Institute provides students with various types of manuals (a guidebook, internal regulations, operating hours of various services, tuition fees; policies and procedures for evaluating student academic achievements; information about educational programs).

The Institute uses the Online Education System for distance learning for educational institutions with support for proctoring and webinars from OES LLP (oes.kz ). The technical support of the DOT allows you to use 2000 GB of space, a webinar for up to 1000 people (100 Mbit/s guaranteed channel width), hosted in the datacenter, backups, chats, file sharing, assignments, testing, exams with proctoring function, mailing lists, credit book, 100% support for mobile platforms.

The Institute carries out constant monitoring and periodic evaluation of educational programs. This measure is necessary in order to ensure that educational programs achieve their goals and meet the needs of students. EITI named after Academician K. Satpayeva was the first among universities in the Republic of Kazakhstan to pass the examination of updated OP and entered the Register of OP

Realizing the need for continuous reform and modernization of curricula aimed at developing learning outcomes, the Institute pays great attention to empowering students, new approaches to teaching and learning, effective support and leadership

structures, as well as educational programs more clearly focused on students in all three cycles. Therefore, the reform of the Institute's curricula is aimed at ensuring the possibility of high-quality, flexible and individualized educational trajectories implemented through the use of a catalog of elective disciplines. The teaching staff, in close cooperation with students and representatives of employers, is continuously working to formulate learning outcomes and international benchmarks for various subject areas.

The Institute has a system of support for students in the process of mastering educational programs and advancing along the educational trajectory.

In the organization of student-teacher relationships in the learning process, emphasis is placed on such skills and competencies that demonstrate students' responsibility for their own learning, independence and cooperation, understanding, and the ability to solve problems.

The Institute has developed a policy in the field of internal quality assurance: which is being developed with the participation of the administration, teaching staff and student activists (student council and Youth Affairs committee). The quality policy begins its formation and discussion from the level of development of directions and proposals at the level of teaching staff and student assets, with strict control of compliance with the requirements of the NPA in the field of education, taking into account ESG ENQA-2015 "Standards and recommendations for quality assurance of higher education in the European area"; then the proposals are transferred to the level of structural units, which make proposals and amendments within their competencies, then these documents are systematized, checked for compliance with the Mission, goals and objectives of the Institute in the Department of Internal Quality Assurance and submitted for discussion and approval at the collegial level. At the collegial level (educational and methodological and supervisory boards), the project is discussed, and after approval it is submitted to the Academic Council for approval. After approval by the Academic Council, the rector's order is issued for its approval.

The Institute's policy is focused on the constant provision of educational services to consumers at a level determined by legislative and regulatory requirements, market conditions in long-term relationships with the employer.

The Institute directs its efforts to continuously improve the quality of educational services based on the integration of education, science, and modern information technologies, responding to the current and projected requirements of consumers of educational services.

The management of the Institute strives for unity of goals, directions and methods of continuous improvement of the education system, creates favorable conditions for the professional growth of employees, provides appropriate resources, delegates authority to staff within the framework of responsibility, makes its decisions based on an objective analysis of factual data using reliable and proven methods.

The teachers of the Institute, being competent and full-fledged participants in the process of the Institute's activities in the field of quality of educational services,

proactively and responsibly plan and carry out their activities, effectively increasing the level of knowledge based on innovative technologies.

The Institute's internal quality assurance system is based on a process approach. An organizational standard has been developed for each of the processes, the methods necessary to ensure the effectiveness, implementation and management of these processes have been identified, the resources and information necessary to support and monitor these processes are provided, monitoring, measurement and analysis are carried out, measures are taken to achieve planned results and continuous improvement of these processes. Record forms have been developed to record the results of monitoring and analysis of processes in departments. All processes are described in the form of tables on relationships in this RC "OP", in the relevant DP, standards, technical documents of the QMS- Quality Guidelines.

The quality management system is a set of interrelated and interacting processes:

- a) general purpose;
- b) guidelines;
- c) resource management;
- d) provision of services, educational activities;
- e) monitoring, measurement, analysis and improvements.

Monitoring of the quality of educational programs is carried out at the level of the DVOKO and the Supervisory Board. According to the results of the academic year, a discussion is held on the results of mastering the claimed learning outcomes and mastering competencies. In case of observation of deviations from the established guidelines, the OP goes through a review procedure, and if necessary, changes and re-approval.

Ensuring anti-corruption at the Institute in 2023 was ensured through the constant work of the Department for Educational Work, which holds meetings and seminars with the invitation of consultants from among departmental organizations, public figures, etc. all information is posted on social networks, and the events of the current year are held online, taking into account the restrictive and quarantine measures. The DVOKO and the Disciplinary and Anti-Corruption Council are also working in this direction.

One of the main directions of anti-corruption measures was the elimination of cases of plagiarism by teaching staff and students, in accordance with paragraph 31 of the Standard Rules of Higher Education Institutions approved by Order of the Ministry of Education and Science of the Republic of Kazakhstan dated 10/30/2018 No. 595, students' written evaluated works (term papers, theses (projects) are checked for the presence of borrowed material and the use of text with synonymous replacement of words and expressions without changing the meaning (paraphrase), including the use of text translated from another language (hereinafter - borrowing). The rules and procedure for checking for the presence of borrowings are defined by the QMS-P-7.2.2-05-2019 The position is Anti-plagiarism.

The scientific works of teachers and researchers submitted for publication are allowed to be checked in loan detection systems.



Accessibility of the university's management for teachers and students, flexibility in responding to requests is provided through weekly meetings of the rector and vice-rectors on the Institute's DOT platform. Meetings are held at 10:00 every Thursday. The rector and dean's blog is also actively functioning on the faculty's website.

Students' satisfaction with the quality of educational programs is determined through continuous online questionnaires and scheduled monitoring of its results.

The continuous mechanism of internal assessment of the quality and expertise of educational programs, ensuring the achievement of the set goals, includes a mandatory feedback process. The survey of students, teaching staff, representatives of practice bases and employers allows us to identify "bottlenecks", and if there are any, systematic work is carried out to review and correct shortcomings.

The survey procedures for all sides of the educational process have been significantly simplified since 2020. So, all types of questionnaires are generated in Google forms and posted on the university's website:

- Employers' satisfaction with the quality of graduate training  
<https://forms.gle/3XXSeEjxgWLVs7AR9>
  
- Student satisfaction with learning outcomes  
<https://forms.gle/ZATDDs19j6cWEcY3A>
  
- Students' satisfaction with creating conditions for personal development and education  
<https://forms.gle/jgLbqAzEta3nMaYc6>
  
- Satisfaction of research students at the university  
<https://forms.gle/yMdjgU3tPLYpoGKi9>
  
- -Satisfaction of university students with providing them with support  
<https://forms.gle/xAmiMyJWrM2H19YF7>
  
- Satisfaction of teaching staff with the university  
<https://forms.gle/5NgSfrx8ERNXsruX8>
  
- Satisfaction with the quality of the educational program organization  
<https://forms.gle/K7jh1eqU1zYkWVKx7>
  
- A teacher through the eyes of students  
<https://forms.gle/28RWg1PdewVLLkcv7>
  
- Involvement of teachers in research  
<https://forms.gle/NqToWGtuy7xdoj558>
  
- Anti-corruption questionnaire at the university for students  
<https://forms.gle/zW2RiqvCcNWH4qCe6>

Based on the results of processing the survey result, during meetings of the supervisory board, round tables with the involvement of representatives of employers, with the direct participation of students, the Department of Internal Quality Assurance, with the involvement of a working group in the form of a Quality Assurance Commission, make decisions and submit reports on the results of monitoring to higher authorities.

When inconsistencies appear, including those related to claims, according to the results of the internal audit, the Institute takes actions adequate to the consequences of the identified inconsistencies in accordance with the requirements of the documented procedure - Internal Audit.

The Institute strives to improve the quality management system through the revision of the quality policy, quality objectives, planning and implementation of measures for improvement

#### 4. Research work

Research work at the university reflects the mission, goals and objectives of the Institute for the training of competitive specialists in the context of integration of education, science and modern innovative technologies.

To increase the amount of funding and the possibility of carrying out scientific research, the Institute is stepping up work on participation in various programs with development institutes, the Ministry of Internal Affairs of the Republic of Kazakhstan, akimats of Pavlodar region and Ekibastuz.

The Institute has a unified information network, which contains information about conferences, competitions, Olympiads, rating journals with impact factors, etc., as well as regulatory documents regulating the scientific activities of scientific and pedagogical staff.

There are 29 educational, scientific and research laboratories equipped with modern equipment at the EITI named after Academician K.Satpayev, where research is carried out by students and applicants of the departments of the Institute. The characteristics of these laboratories are listed below (table 1).

Table 1 - List and characteristics of laboratories.

№	Availability of a research institute, a clinical base, a scientific laboratory, a technopark, a business incubator (choose the right one)	Location address	On the right of ownership or on a contractual basis	Note (brief information about the activities of the base)
1		2	3	4

1	Laboratory of Mechanics and Liquid Gas	Energetikov 54a, building B, room B-1.	On the right of ownership	Scientific laboratory. The area is 35 m <sup>2</sup> . It is focused on the study of the flow and mixing modes of liquid and gas in specialized devices. It is intended for research students and staff of the departments of the Institute
2	Laboratory of materials properties research	Energetikov 54a, building B, room B-2.	On the right of ownership	Scientific laboratory. The area is 34.8 m <sup>2</sup> . It is intended for research students and staff of the departments of the Institute
3	Building materials	Energetikov 54a, building C, room 112.	On the right of ownership	Educational and scientific laboratory. The area is 59.7 m <sup>2</sup> . It is intended for research of students and staff of departments of the Institute in the direction of; laboratory work in the disciplines "Building materials", "THEY" for the specialty "Construction".
4	Physico-chemical methods of analysis of metallurgical processes and agglomeration	Energetikov 54a, building C, room 101/1.	On the right of ownership	Educational and scientific laboratory. The area is 11.3 m <sup>2</sup> . It is intended for research of students and staff of the departments of the Institute in the field of laboratory work in the disciplines "Technology of metallurgical production and 2", "Theory of metallurgical processes", "Theory and technology of production of ferroalloys", "Physico-chemical methods of research of metallurgical processes" for the specialty "Metallurgy".

5		Energetikov 54a, building C, room 101/2.	On the right of ownership	Educational and scientific laboratory. The area is 38.2 m <sup>2</sup> . It is intended for research of students and staff of the departments of the Institute in the field of laboratory work in the disciplines "Technology of metallurgical production and 2", "Theory of metallurgical processes", "Theory and technology of production of ferroalloys", "Physico-chemical methods of research of metallurgical processes" for the specialty "Metallurgy".
6		Energetikov 54a, building C, room 101/3.	On the right of ownership	Educational and scientific laboratory. The area is 16.4 m <sup>2</sup> . It is intended for research of students and staff of the departments of the Institute in the field of laboratory work in the disciplines "Technology of metallurgical production and 2", "Theory of metallurgical processes", "Theory and technology of production of ferroalloys", "Physico-chemical methods of research of metallurgical processes" for the specialty "Metallurgy".
7	Electric machines and drive	Energetikov 54a, building A, room 119.	On the right of ownership	Educational and scientific laboratory. The area is 91.5 m <sup>2</sup> . It is intended for research of students and staff of departments of the Institute in the field of; laboratory work in the disciplines of "Automated electric drive", "Electric machines" for the specialty "Electric Power Engineering".

8	Relay protection and automation	Energetikov 54a, building A, room 122.	On the right of ownership	Educational and scientific laboratory. The area is 31.3 m2. It is intended for research of students and staff of the departments of the Institute in the field of; laboratory work on the discipline "Relay protection and automation" for the specialties "Electric Power Engineering", "Automation and control".
9	Electronics	Energetikov 54a, building A, room 120.	On the right of ownership	Educational and scientific laboratory. The area is 30.0 m2 . It is intended for research of students and staff of the departments of the Institute in the field of; laboratory work on the discipline "Electronics" for the specialties "Electric Power Engineering", "Automation and control"
10	Power supply	Energetikov 54a, building A, room 112.	On the right of ownership	Educational and scientific laboratory. The area is 16.9 m2. It is intended for research of students and staff of the departments of the Institute in the field of; laboratory work in the disciplines "Power supply of industrial enterprises", "Electric networks and systems" for the specialty "Electric Power Industry".
11	Microprocessor technology and industrial controllers	Energetikov 54a, building A, room 125.	On the right of ownership	Educational and scientific laboratory. The area is 41.9 m2. It is intended for research of students and staff of the departments of the Institute in the field of; laboratory work in the disciplines "Automation of technological processes and production" for the specialties "Electric Power Engineering", "Automation and control".

12	Theoretical foundations of electrical engineering	Energetikov 54a, building A, room 124.	On the right of ownership	Educational and scientific laboratory. The area is 90.5 m <sup>2</sup> . It is intended for research by students and staff of the departments of the Institute in the field of; laboratory work in the disciplines "Theoretical foundations of electrical engineering" and "Theory of electrical circuits" for the specialties "Electric Power Engineering", "Automation and control", "Thermal Power Engineering", "Metallurgy", "Transport, transport equipment and technology", "Organization of transportation and traffic management in transport", "Vocational training".
13	Heat and mass transfer processes	Energetikov 54a, building C, room 210.	On the right of ownership	Educational and scientific laboratory. The area is 59.7 m <sup>2</sup> . It is intended for research of students and staff of the departments of the Institute in the direction of laboratory work in the disciplines "Heat and mass transfer", "Heat and mass transfer processes and installations".
14	Electricity and magnetism	Energetikov 54a, building A, room 111.	On the right of ownership	Educational and scientific laboratory. The area is 36.3 m <sup>2</sup> . It is intended for research of students and staff of departments of the Institute in the field of; laboratory work on the discipline "Physics"
15	Electrical Engineering	Energetikov 54a, building A, room 120a.	On the right of ownership	Educational and scientific laboratory. The area is 34.2 m <sup>2</sup> . It is intended for research of students and staff of departments of the Institute in the field of; laboratory work on the discipline "Electrical engineering and fundamentals of electronics"

16	Optics and Nuclear Physics	Energetikov 54a, building A, room 35a.	On the right of ownership	Educational and scientific laboratory. The area is 20 m2. It is intended for research of students and staff of departments of the Institute in the field of; laboratory work on the discipline "Physics"
17	Molecular physics and Thermodynamics	Energetikov 54a, building A, room 35b.	On the right of ownership	Educational and scientific laboratory. The area is 36.8 m2. It is intended for research of students and staff of departments of the Institute in the field of; laboratory work on the discipline "Physics"
18	Robotics and Reprogramming	Energetikov 54a, building A, room 37.	On the right of ownership	Educational and scientific laboratory. The area is 36.0 m2. It is intended for research of students and staff of departments of the Institute in the field of; laboratory work in the disciplines of "Programming technology", "Development of software complexes based on OP", "Algorithm of data structure and programming", "Robotics and programming of microcontrollers".
19	On technological machines	Energetikov 54a, building C, room 106.	On the right of ownership	Educational and scientific laboratory. The area is 70.4 m2. It is intended for research of students and staff of departments of the Institute in the field of; laboratory work on the discipline "Repair of technological machines"
20	Electric rolling stock	Energetikov 54a, building C, room 205.	On the right of ownership	Educational and scientific laboratory. The area is 57.1 m2. It is intended for research of students and staff of the departments of the Institute in the field of; laboratory work in the disciplines of "Locomotive repair", "Auto brake", "Train safety", "Locomotive economy".

21	Thermal and electric power plants	Energetikov 54a, building C, room 209.	On the right of ownership	Educational and scientific laboratory. The area is 57.8 m <sup>2</sup> . It is intended for research of students and staff of departments of the Institute in the field of; laboratory work on the discipline "Thermal measurements and devices"
22	Chemistry	Energetikov 54a, building B, room 6.	On the right of ownership	Educational and scientific laboratory. The area is 44 m <sup>2</sup> . It is intended for research of students and staff of departments of the Institute in the field of; laboratory work on the discipline "Chemistry"
23	Web technologies	Energetikov 54a, building A, room.22.	On the right of ownership	Educational laboratory. The area is 81.9 m <sup>2</sup> . It is intended for research of students and staff of departments of the Institute in the field of; laboratory work in the disciplines of "Web technologies", "Development and testing of Web applications and principles of building Web servers "Mobile application development, Programming in JABBA"
24	Information and communication technologies	Energetikov 54a, building A, room 21.	On the right of ownership	Educational laboratory. The area is 92.1 m <sup>2</sup> . It is intended for research of students and staff of departments of the Institute in the field of; laboratory work on the discipline "Information and communication technologies"



25	Physics	Power engineers 54a, building A, room 35.	On the right of ownership	Educational and scientific laboratory. The area of 59 m2., is intended for research of students and staff of the departments of the Institute in the field of; laboratory work in the disciplines "Technology of metallurgical production and 2", "Theory of metallurgical processes", "Theory and technology of ferroalloy production", "Physico-chemical methods of research of metallurgical processes" for the specialty "Metallurgy".
26	Cars	Energetikov 54a, building C, room 105.	On the right of ownership	Educational and scientific laboratory. The area is 70.4 m2. It is intended for research by students and staff of the departments of the Institute in the field of; laboratory work in the disciplines "Maintenance and operation of cars", "Technological design of a motor transport enterprise", "Organization and road safety". "fundamentals of car manufacturing and repair technology".
27	Laboratory of Geodesy	Energetikov 54a, building C, room 108.	On the right of ownership	Educational laboratory. The area is 56.6 m2. Assignment conducting laboratory and practical work in the disciplines of the department; consultations on bachelor's degree preparation

28	Academic M.P. Mardenov's study room (virtual laboratory)	54a Energetik ter str., building B, room. No. 7 (B-7)	On the right of ownership	<p>Виртуальная лаборатория. Площадь 56 м<sup>2</sup>. Предназначена для проведения лабораторных работ по дисциплинам «Механические свойства материалов», «Материаловедение и ТКМ», «Основы теплоэнергетики», «Теоретические основы теплотехники», «Механика жидкости и газов», «Теплофикация и тепловые сети», «Нагнетатели и тепловые двигатели», «Теломассообмен», «Прикладная механика», «Теоретическая механика», «Сопротивление материалов».</p> <p>Для консультации - учебная научно-исследовательской работы студентов по направлению подготовки: 6В072- Производственные и обрабатывающие отрасли 6В071 - Инженерия и инженерное дело</p>
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#### 4.1 Research topics of the Institute (see table 1)

Department of "Construction": "Research of saline soils of Kazakhstan for construction purposes".

Department of Automation and Information Systems: "Research, design and development of automated information systems in various fields".

Department of Business and Management: "The mechanism of organization of effective management in enterprises and organizations."

Department of Transport: "Research of technological and design parameters of transport systems and technologies of the transportation process in compliance with traffic safety and environmental balance."

Department of Mining: "Assessment of rocks and development of optimal fastening parameters".

The Department of "Social and Humanitarian Disciplines": "The use of active learning technologies in the modern educational process of the college."

The Department of Metallurgy and Technology: "Analysis of the use of coal briquettes in industry, in everyday life and the possibility of production from local raw materials."

Department of "Energy": "Development and implementation of the project of electric supply of the enterprise "Gidroprom" LLP.

Table 1 – Information on contracts concluded with third-party organizations

Name of the department	Name of the contracting authority, dates of conclusion of contracts	The topic of the work
AaIS	NUO "Ekibastuz College of Engineering and Technical Institute named after Academician K. Satpayeva" (EKITI) from 10.01.24 to 12/23.25. In the amount of 805,000 tenge.	Development of an automated information system for the secretary of the GAK, GEK EKITI
BaM	Nytcom LLP from 2.10.23 to 11.06.25 In the amount of 2370000 tenge.	Development and implementation of the company's personnel development program
MT	IP "Kaparov Marat Eglambekovich" from 30.08.22 to 30.08.25. In the amount of 1050000 tenge.	Analysis of the use of coal briquettes in industry, in everyday life and the possibility of production from local raw materials
Construction	Agro-Service LLP from 10.01.22 to 12/31.24. In the amount of 3000000 tenge.	Development of recommendations for the installation of a protective and load-bearing silicate shell of bored piles in saline dusty clay soils

## 2. Research indicators by departments for the 2023-2024 academic year (Table 2)

Table 2 – Research indicators by departments

№ п/а	Department name	Articles						Books				Security documents		PPP				Implementation of research results		Financing of research and development			
		Database (CCSON)	Database (Scopus)	Database (TR)	Database (РИИЦ)	Other databases	Outside the databases	Training manuals	Textbooks	Monographs	Other	Patents	Copyright certificates	The number of teaching staff in total people	Part-timers	With academic degrees	Advanced training has been completed	Acts of implementation of research results in the educational process	Acts of implementation of research results into production	Based on a business agreement, thousand tenge	From the funds of the Institute, thousand tenge	Grant, thousand tenge	Initiative topics, number of
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	Construction				6			1					2	13	5	4	1	1	-	3000			
2	AaS		1		10					1			4	18	8	4	9	3	3	2370			
3	BaM	1			6	1		1												1053			
4	Transport				10			1						21	9	5	12	-	2	-			1
5	Mining	2	1		-			1		1										-			
6	SHD				2															-			
7	MT				4									12	3	7	7	-	-	1050			
8	En				6									16	5	5	11	-	2	-			

During the 2023-2024 academic year, the Institute's teachers published 50 articles. Of these, 44 articles are indexed in the RSCI.

3 articles have been published in journals recommended by KKSON, among them: "Bulletin of KazUTB", "BULLETIN of the ROO"of the NATIONAL ACADEMY OF SCIENCES OF THE REPUBLIC OF KAZAKHSTAN". Authors of publications: Amerzhanova D.A., Kainazarov A.S., Kainazarova A.S.

Participation in conferences, seminars, etc.:

B.B. Unaibayev – member of the jury. Technical project competition within the framework of the IX MNPC regional festival "Prospects for innovative development of coal regions of Russia". 04/26/2024. RF, KuzSTU Branch in Prokopyevsk.

B.B. Unaibayev is a member of the organizing committee. IX MNPC "Prospects for innovative development of coal regions of Russia". 25-26.04.2024. RF, KuzSTU Branch in Prokopyevsk.

B.B. Unaibayev is a member of the organizing committee. VI MNPC "Modern issues of natural science and economics". 03/21/2024. RF, KuzSTU Branch in Prokopyevsk.

B.B. Unaibayev is a member of the organizing committee. The open Olympiad of schoolchildren. 12/15/2023. RK, Ekibastuz, EITI named after K.Satpayev.

Unaibayev B.B. XXXI MINSK INTERNATIONAL BOOK EXHIBITION "MMKVYA — 2024". RB, Minsk. 14-17.03.2024.

Bazarov B.A., Unaibaev B.B., Konakbayeva A.N., Filatov A.V. Moscow International Salon of Education 2024 (April 3-4, 2024, Moscow). Russian Federation, Moscow. 3-4.04.2024.

Mazhit A.A., Nurmaganbetova B.N. International scientific and practical conference dedicated to the 125th anniversary of the scientist, academician K.I.Satpayev. – Kokshetau "Ualikhanov University"., March 4, 2024.

Textbooks have been published:

extbook "Money circulation and banking activities" prepared by the author D.A. Amerzhanova, PhD, Associate Professor of the Department of Business and Management named after Z.A. Galimov, 2023.

the textbook "Assessment of compliance with the requirements of the technical regulations of the disc brake of rolling stock" prepared by a team of authors Omarbekov A.K., A.A. Abeuova, Ibraeva S.Zh., V.I. Safonov, 2023

textbook "Profession - Builder" by the author of associate professor, Candidate of Technical Sciences B.B. Unaibaeva, 2023

The textbook "Tau-ken onerkasibindegi onim sapasyn baskaru" author Kainazarov A.S., 2023

Monograph "Digital transformation of the university: opportunities, assessment, solutions", authors Dzhuzbaeva B.G., Zhuzbaev S.S., Sabitova D.S. (5 p.l.).

Monograph "Tau-ken zhynystaryn konturlaryn turaktylygyn arttyru usin kazbalaryn ankerlik bekit technologiysyn geomechanikalyk negizdeu".authors Kainazarov A.S., Kainazarova A.S. 2023.

Prepared for publication, applications for ISBN have been submitted:

Textbook "Operations Research", authors Kurmanova B.T., Zhalmagambetova D.K.

### 3 Logistical support, availability of specialized laboratories, etc. (Table 3)

Table 3 – Specialized logistics

№ n/a	Department	The name of the scientific and production complex (laboratories; technoparks; business incubators; design bureaus; experimental sites, etc.)	On the basis of the Institute	Outside the institute
1	2	3	4	5
1	Construction	Laboratories	1	
2	AaIC	Laboratories	3	
3	БаМ	A centralized computer auditorium equipped with an interactive whiteboard, personal computers with software (IS SONO, IS ESF) for 40 seats	1	
4	Transport	Laboratories	2	
		Specialized office	2	
		Polygon	1	
5	Mining	Laboratories	2	
		Specialized office	3	
		Virtual Laboratory	1	
6	SHD			
7	МТ	Laboratories	7	
8	ЭН	Laboratories	11	

#### 4.1 Holding exhibitions, conferences, seminars, contests, Olympiads, etc. at the Institute.

On 15.12.23, the AIIIS department held a Regional Olympiad among schoolchildren of the city. The "Open Olympiad of Schoolchildren" was held in the following subjects: mathematics, computer science.

The Olympiad was held according to tasks compiled on the basis of basic general education programs of secondary education.

The winners and prize-winners of the Olympiad were determined based on the results of the work. All participants of the Olympiad received certificates of participation.

The winners of the Olympiad were awarded with a diploma of the 1st degree and received a 50% discount on tuition at the EITI named after Academician K. Satpayev for the 2024-2025 academic year.

The winners of the Olympiad, who took the 2nd place, were awarded with diplomas of the 2nd degree and received a 25% discount on tuition at the EITI named after Academician K. Satpayev for the 2024-2025 academic year;

The winners of the Olympiad, who took the 3rd place, were awarded a diploma of the 3rd degree and received a 10% discount on tuition at the EITI named after Academician K. Satpayev for the 2024-2025 academic year.

The teaching staff of the department were involved in the organization and conduct of the Olympiad under the leadership of the head of the department Kydyrbaeva A.B.

On February 10, 2023, an educational and methodological seminar was held on the topic "Using AI in the educational process", speaker Zozulya E.S., 18 participants.

On 04/14/2023, an educational and methodological seminar was held on the topic "Modeling of ACS synthesis processes by engineering methods", speaker Bystrova S.V., 18 participants.

In the 2023-2024 academic year, on the basis of the Mining Department of the Ekibastuz Engineering and Technical Institute named after Academician K. Satpayev passed the II stage of the Republican subject Olympiad among students of higher educational institutions, dedicated to the 125th anniversary of Academician Kanysh Imantaevich Satpayev. The subject Olympiad was held according to the educational program 6B07205 – "Mining Engineering" in the disciplines "Fundamentals of mining production", "Physics of rocks", "Technology of rocks". The event was attended by 10 teams of universities of the Republic of Kazakhstan: NAO "Kazakh National Research Technical University named after K.I. Satpayev" (Almaty), UO "Caspian Public University" (Almaty), NAO "Aktobe Regional University named after K. Zhubanov" (Aktobe), JSC "Kazakh University of Technology and Business named after K. Kulazhanov" (Astana), NAO Karaganda Technical University named after Abylkas Saginov (Karaganda), NAO Kokshetau University named after Sh. Ualikhanov" (Kokshetau), NAO "East Kazakhstan Technical University named after D. Serikbayeva" (Ust-Kamenogorsk), NAO "Rudnensky Industrial Institute" (Rudny), JSC "Zhezkazgan University named after O.A. Baikonurov" (Zhezkazgan), NUO "Ekibastuz Engineering and Technical Institute named after Academician K. Satpayeva (Ekibastuz).

#### **4.2 Participation of teaching staff in exhibitions, conferences, seminars, competitions, Olympiads, etc.**

No	Full name	The name of the conference, Olympiad, etc.	The name of the conference, Olympiad, etc.	Deadlines	Note
1	2	3	4	5	6
1	Zozulya E.S.	Regional online competition of teachers of general secondary and additional education "pedagogical ideas"	Pavlodar	01.01.2023-16.03.2023	Diploma of the first degree
2	Zozulya E.S.	Republican hackathon "KUICKHACK'2024"	Pavlodar	29.04.2024-04.05.2024	Diploma of the II degree
3	Zozulya E.S.	Republican hackathon "KUICKHACK'2024"	Pavlodar	29.04.2024-04.05.2024	Diploma of the III degree
4	Zozulya E.S.	Republican hackathon "KUICKHACK'2024"	Pavlodar	29.04.2024-04.05.2024	Certificate
5	Zozulya E.S.	Regional competition "pedagogical skills" regional competition direction "additional education"	Pavlodar	10.05.2024	Diploma of the first degree
7	Bystrova S.V. (scientific supervisor of the	Competition of scientific research works Kazakh National	Almaty	17.05.2024	Diploma of the first degree

	BAU-31 student Egovtseva A.V.)	Research Technical University named after K. I. Satpayev on the topic: "Determining the setting of dynamic parameters of the steam pressure regulator behind the drum of a pulverized coal steam generator"			
8	Kozhamzharova M.K. (scientific supervisor of BIS-31 students Taibupenov A.K., Zhaksalykov A.K.)	Competition of scientific research works JSC "International University of Information Technologies" on the topic: "Modernization of the information system of the final certification of the Institute"	15.05.2024	Almaty	
9	Seitkanov S.S. (scientific supervisor of the BIS-31k student Zhumat A. )	Pavlodarenergo JSC, Competition of student works in the field of energy industry among students of higher and secondary educational institutions of Pavlodar and Ekibastuz on the topic: "Automatic adjustment of dynamic parameters of automatic control systems of thermal power plants"	Pavlodar Pavlodarenergo JSC	13.06.2024	Diploma of the winner
10	Kolesnichenko N. Y.	All-Russian Olympiad in the discipline "Power supply of industrial and civil buildings", held on the portal of remote Olympiads and competitions "Mir-Olympiads"	Russia, the portal of remote Olympiads and competitions "Mir-Olympiads"	05.04.2024	A letter of thanks for preparing students for the Olympiad
11	Kolesnichenko N. Y.	The All-Russian Olympiad in the discipline "Electric machines", held on the portal of remote Olympiads and competitions "Mir-Olympiads"	Russia, the portal of remote Olympiads and competitions "Mir-Olympiads"	09.12.2023	A letter of thanks for preparing students for the Olympiad
12	Mikhailidi Irina Ivanovna	International certification with passing of testing on the topic "Methodology of project-based learning in the activity of a teacher"	Online Knowledge	August 2023	Certificate of distinction of the III degree

## **5 Cooperation with educational organizations, scientific and/or scientific-educational and/or scientific-production centers in the relevant areas of personnel training**

1 foreign teacher (lecturer) was invited to the Mining Department (Table 4)



Table 4 – Information about invited foreign teachers (lecturers)

№ n/a	Full name of the invited foreign teachers (lecturers)	Academic degree, academic title	A country	Name of the university	Discipline	Number of credits	Due date	PPP Mobility Agreement (number and date)	Certificate of completed work (number and date)
1	Karsten Drebenstedt	Doctor of Technical Sciences, Professor	GERMANY	Фрайбергская горная академия	Fundamentals of mining, Ecology of mining	1	06.05.2024-17.05.2024	Contract	Act

During the study period, 2 teachers of the Department of Construction conducted lectures at the University of the Russian Federation and 2 teachers of the Department of Transport:

1) Unaibayev B.J. Branch of KuzGTU named after T.F. Gorbachev (KuzGTU) in Prokopyevsk. The discipline "Foundations and foundations", 4 credits. 09.01.2024-02.02.2024

2) Unaibayev B.B. Branch of KuzGTU named after T.F. Gorbachev (KuzGTU) in Prokopyevsk. Discipline "Organization of construction production", 4 credits. 09.01.2024-02.02.2024

3) Dainova J.H. CHU "M.Dulatov Kostanay University of Engineering and Economics". The discipline "Fundamentals of design and machine parts", 5 credits. 22.01.2024 – 25.05.2024. Order No.1-3/10 dated 01/20/2024

4) Mikhailidi I.I. CHU "M.Dulatov Kostanay University of Engineering and Economics". Discipline "Interaction of modes of transport", 5 credits. 22.01.2024 – 25.05.2024. Order No.1-3/10 dated 01/20/2024

## **5.2 Cooperation with educational organizations, scientific and/or scientific-educational and/or scientific-production centers.**

1) B.B. Unaibayev is a member of the editorial board of the SIC Bulletin of Science. Topical issues of modern science: theory, technology, methodology and practice / Collection of scientific articles based on the materials of International scientific and practical conferences. /Ufa: Ed. SIC Bulletin of Science. Russian Federation, Ufa. During the year.

2) In December 2023, a cooperation agreement was signed with the Ural State University of Economics, Yekaterinburg.

3) An application has been submitted for participation in the competition for grant funding for scientific and scientific-technical projects (2022-2024) on the topic: "Development of device technologies and assessment of the bearing capacity of combined foundations" together with the staff of M.H. Dulati Taraz Regional University. Member of the research group B. J. Unaibayev.

4) Cooperation with academies:

EITI is an associate member of the National Academy of Mining Sciences, a member of the Association of Universities of the Republic of Kazakhstan.

Unaibayev B. Zh. – academician of the National Academy of Sciences, Kainazarov A.S. – member-correspondent. NAGN.

## II RESEARCH WORK OF STUDENTS

### 1. Research of students in indicators (Table 6)

There are 8 student scientific circles at the institute, in which 6 students participated, 10 participate in research on a contractual basis. Students have published 23 articles (Tables 6, 7).

Table 6 – Student research indicators

№ n/a	Name of the department	Number of student scientific circles	Number of participants	Participated in Olympiads	Winners of the Olympiads	Participated in conferences	Participated in competitions	The winners of the contests	Number of theses that have been implemented	Student publications	Participation in research on a contractual basis
1	2	3	4	5	6	7	8	9	10	11	
1	Construction	1	10			2				2	2
2	AaIS	1	10			9	5	5	6	9	4
3	BaM										
4	Transport	2	10	9	3	10	2		2	10	
5	Mining										
6	SHD (providing department)										
7	Mt	1	4			2	2	2		2	2
8	En	1	23			4					2

Every year, EITI students take part in Olympiads, competitions and take prizes (Table 7).

Table 7 – Information on student participation in conferences, Olympiads, competitions, seminars, round tables, competitions, etc.

№ n/a	Student's full name, group	The name of the conference, Olympiad, etc.	Prize-winning place	Date of receipt of the award	Venue (country, city)
1	Makhmet A.E.	MNPK EITI-KuzSTU "Improving the quality of education, modern innovations	Certificate of the participant	May 16, 2024	RK, Ekibastuz

		in science and production"			
2	Okasov E.T.	MNPK EITI-KuzSTU "Improving the quality of education, modern innovations in science and production"	Certificate of the participant	May 16, 2024	RK, Ekibastuz
3	Subratova E.O.	MNPC "Improving the quality of education modern innovations in science and production"	Certificate	16.05.2024	Kazakhstan Ekibastuz
4	Yatsenko D.B.	"Science and business: innovations in production": Materials of the International scientific and practical conference dedicated to the 125th anniversary of the scientist, academician K.I.Satpayev. – Kokshetau, 2024.	Certificate	04.03.2024	Kazakhstan Kokshetau
5	Zhumat Atakozy BIS-31 K	Pavlodarenergo JSC, Competition of student works in the field of energy industry among students of higher and secondary educational institutions of Pavlodar and Ekibastuz on the topic: "Automatic adjustment of dynamic parameters of automatic control systems of thermal power plants"	Diploma of the winner	13.06.2024	Pavlodar Pavlodarenergo JSC
6	Egovtsev A.V. BAU-31	Competition of scientific research works Kazakh National Research Technical University named	Diploma of the first degree	17.05.2024	Almaty

		after K. I. Satpayev on the topic: "Determining the setting of dynamic parameters of the steam pressure regulator behind the drum of a pulverized coal steam generator"			
7	Taibupenov A.K. Zhaksalykov A.K. BIS-31	Competition of scientific research works JSC "International University of Information Technologies" on the topic: "Modernization of the information system of the final certification of the Institute"		15.05.2024	Almaty
8	Zholzhanov A.U. (BIS-21)	COURSERA Course Business English: Networking	COURSE CERTIFICATE	19.05.2024	
9	Tursuntaev D.K. (BIS-21)	COURSERA Course Science of Exercise	COURSE CERTIFICATE	25.05.2024	
10	Vasilyuk A.I. (BAU-21)	COURSERA Course Python for Data Science, AI & Development	COURSE CERTIFICATE	02.07.2024	
11	Kolesnikov V.V. (BAU- 21)	COURSERA Course Python for Data Science, AI & Development	COURSE CERTIFICATE	03.07.2024	
12	Kamaliyev A.T. (BAU-21c)	COURSERA Course Python for Data Science, AI & Development	COURSE CERTIFICATE	05.07.2024	
13	Rakhmashev D. D. (BIS- 21)	COURSERA Course English for Common Interactions in the Workplace: Basic Level	COURSE CERTIFICATE	12.07.2024	
14	Hasanov E.D. (BIS-31)	COURSERA Course Basics of graphic design	COURSE CERTIFICATE	12.07.2024	
15	Ivashchenko A.S.	COURSERA Course Basics of graphic	COURSE CERTIFICATE	30.08.2024	

	(BAU-31)	design			
16	Akhmetov D. R., BEE-11	The course "AL for everyone"	Certificate of completion of the course	19.06.2024	Coursera Online Platform
17	Adilkhan J. A., BEE-31	All-Russian Olympiad "Power supply of industrial and civil buildings"	Diploma of the participant of the Olympiad	05.04.2024	The World of Olympiads online platform
18	Poznyak A. A., BEE-31	All-Russian Olympiad "Power supply of industrial and civil buildings"	Diploma of the participant of the Olympiad	05.04.2024	The World of Olympiads online platform
19	Belov E. B., BEE-31	All-Russian Olympic Games "Electric Machines"	Diploma for the third place	09.12.2023	The World of Olympiads online platform
20	Ivanov V. S., BEE-31	All-Russian Olympic Games "Electric Machines"	Diploma for the second place	09.12.2023	The World of Olympiads online platform
21	Zhakudinov T. N., BEE-31	All-Russian Olympic Games "Electric Machines"	Diploma of the participant of the Olympiad	09.12.2023	The World of Olympiads online platform
22	Zhuzbasova G.T., BTT-31	XVI Republican subject Olympiad among students of universities of the Republic of Kazakhstan	Diploma 3 degrees	18.04.2024	L.N. Gumilyov Eurasian National University, Kazakhstan, Astana
23	Karpukhin A. A., BTT-21s	XVI Republican subject Olympiad among students of universities of the Republic of Kazakhstan	Certificate of participation	24.04.2024	NAO "Toraigyrov University" of the Republic of Kazakhstan, Pavlodar
24	Temirzhanova L.B.	Online educational project STUDY LIFE All-Russian Olympiad	Diploma of the 1st degree		Omsk, Russian Federation
25	Taraskin D.S.	Online educational project STUDY LIFE All-Russian Olympiad	Diploma of the 2nd degree		Omsk, Russian Federation
26	Myakoshina T.P.	Kazakh Agrotechnical Research University named after S. Seifullin	Thank you letter	10.05.2024	NAO "Kazakh Agrotechnical Research University named after S.Seifullin" RK, Astana
27	Эйвазов Э.М.	Kazakh Agrotechnical	Thank you letter	10.05.2024	NAO "Kazakh Agrotechnical

		Research University named after S. Seifullin			Research University named after S.Seifullin" RK, Astana
28	Yashin A.A.	Online educational project STUDY LIFE All-Russian Olympiad	Certificate		Omsk, Russian Federation
29	Zhukov A.I.	Online educational project STUDY LIFE All-Russian Olympiad	Certificate		Omsk, Russian Federation
30	Mergaliev D.S.	Online educational project STUDY LIFE All-Russian Olympiad	Certificate		Omsk, Russian Federation
31	Tursuntaev D.K BIS-21	In honor of the Health Month, athletics among the population was held.	Diploma 3rd place	29.09.2023	Ekibastuz
32	Petrenko Zlata BIS-31	NOMINATION" BEST THINKER "OF THE REGIONAL VOLLEYBALL TOURNAMENT AMONG UNIVERSITIES" PAVLODAR STUDENT LEAGUE"	Diploma	13.01.2024	Pavlodar
33	Vasilyuk Alexander (BAU-21)	The College of Ekibastuz engineering and technical institute named after academician Satpayev organized a tournament among students in the framework of the celebration of Nauryz meiramy on national types "Nauryznama: National Sports Day" "pushing the weight stone"	Diploma of the 1st degree	20.03.2024	Ekibastuz
34	Alexander	The College of	Diploma	20.03.2024	Ekibastuz

	Yablonsky (BAU-31c)	Ekibastuz engineering and technical institute named after academician Satpayev organized a tournament among students on national types "Nauryznama: National Sports Day" as part of the celebration of Nauryz meiramy	3rd place		
35	Kuksa A.A. BIS-11	International online competition of fine and decorative arts for children (2-18 years old) "CREATIVE WORKSHOP"	Diploma III place OKUKZREG No. 11DIII	20.11-20.12. 2023 г.	International Distance Learning Center "OKU.KZ "
36	Subratova E.O.	Activist	Certificate	16.05.2024	Kazakhstan Ekibastuz
37	Yatsenko D.B.	Activist	Certificate	16.05.2024	Kazakhstan Ekibastuz

## 5. International cooperation

International activities are carried out in various areas, including work on cooperation agreements, initiative events, foreign business trips in order to establish contacts with scientists and invite them to the Institute, training and advanced training in foreign universities, participation in international conferences of the CIS and non-CIS countries, etc.

Academician K.Satpayev EITI maintains close relations with research organizations and leading universities of the Republic of Kazakhstan, CIS countries and neighboring countries on mutual cooperation in the field of educational services and the scientific and technical industry, in particular, in the 2022-2023 academic year, the institute concluded agreements and memoranda with:

1) In September 2022, a Memorandum on cooperation and an agreement on mutual cooperation in the provision of educational services within the framework of academic mobility with the Taraz Innovation Institute.

2) Unaibayev B. Zh. acted as a reviewer for the textbook "The construction of monolithic buildings", authors N.V. Gilyazidinova, E.A. Shabanov KuzSTU (Russian Federation), reviewer for the textbook "Soil mechanics, foundations and foundations", authors Baitasov T.M., Lukpanov R.E. L.N. ENU. Gumilyova (Kazakhstan).



3) Unaibayev B.Zh. participated as a member of the organizing committee in the international scientific and practical conference "Problems of construction production and real estate management", held on 24-25.10.2022 at KuzSTU named after T. F. Gorbachev, Kemerovo.

4) An application has been submitted for participation in the competition for grant financing for scientific and scientific-technical projects (2022-2024) on the topic: "Development of device technologies and assessment of the bearing capacity of combined foundations" together with the staff of M.H. Dulati Taraz Regional University. Member of the research group B. J. Unaibayev.

5) Toraigyrov University: B. J. Unaibayev – Chairman of the Dissertation Council for the protection of master's works extended for 2022-23 academic year.

6) KazGUU: A.E. Baigozhina is a member of the dissertation council.

7) Cooperation with academies:

EITI is an associate member of the National Academy of Mining Sciences, a member of the Association of Universities of the Republic of Kazakhstan.

Unaibayev B. Zh. – academician of the National Academy of Sciences, Kainazarov A.S. – member-correspondent. NAGN.

By the decision of the General Meeting of the NAGN members, Protocol No. 11 dated 11/25/2022, B.B. Unaibayev was elected a corresponding member of the NAGN.

8) Association of teachers of Nur Sultan: Baigozhina A.E. member of the association.

9) Independent Agency for Quality Assurance in Education (IQAA): B.B. Unaibayev is a national academic expert.

## **6. Educational work**

At the beginning of the 2023-2024 academic year, the action plans for educational work, the Youth Affairs committee, the action plan of the Danyshpan debate club were approved and the staff of the KDM was approved.

The priority areas of educational work are:

- 1) education of Kazakhstani patriotism and citizenship, legal education;
- 2) spiritual and moral education;
- 3) national education;
- 4) family education;
- 5) labor, economic and environmental education;
- 6) multicultural and artistic and aesthetic education;
- 7) intellectual education, education of information culture;
- 8) physical education, healthy lifestyle.

According to the results of the 2023-2024 academic year, students from each department took part in competitions, seminars, debate tournaments, trainings, events of the city, international level, as well as in sports competitions of regional and republican significance.

During the year, the following online meetings, meetings, events, seminars, debates were held:

A solemn meeting dedicated to the Day of Knowledge;  
 Challenge "Menin tandauym – kazak tili";  
 The action "Hour of integrity" with the head of the Department of the Anti-Corruption Service for Pavlodar region Abdrakhmanov Mereke Amangeldievich;  
 Meeting with the head of the Center for the Development of Youth Initiatives in Ekibastuz;  
 Meeting at the expert platform "JASTARx" on the topic "Adal Azamat: what is the basis of culture";  
 Going to the cinema with 1st year students;  
 Meeting with world weightlifting champion Ilya Ilyin;  
 Students and faculty of the Institute participated in morning exercises dedicated to the "Health Day";  
 Evacuation training was conducted in the presence of an employee of the Emergency Management Department. Ekibastuza was appointed by Lieutenant Baymamyrova K.M.;

The participation of the volleyball team "EITI" in the charity tournament, which was held in Pavlodar;

Participation of student Tursyntaev Daulet for the Athletics Health Day, in which he took 3rd place;

On the day of the elderly, students congratulated grandparents in the courtyards of the streets;

- Participation of Kaman Adilet student, a student of the BMT-11k group, at the Open Pavlodar lawn tennis tournament, in which he took 1st place;
- A free master class for young people was held on the basis of the exhibition "SKILLS JASTAR";
- Participation of student Makhmet Ayaulym of the BST-31 group at the I Kurultai of students of the northern regions of Kazakhstan, in Pavlodar;
- Congratulations from students on the Republic Day;
- Took part in the mini-football competition "Auispaly Cup";
- Meeting with employees of the Center for Analysis and Development of Interfaith Relations LLP of the Department of Religious Affairs of the Pavlodar region, theologian Salmanov D.M. and head of the Department for Information and explanatory work Turebaev on the topic "Religious education and secular life";
- Participation of students in shooting competitions from the LKA "Altyn Zhebe";
- "Dedication to students – 2023";
- Seminar on the topic "AITV infection of Aldin aldyn alu" with representatives of the Pavlodar regional Center for the prevention of HIV infection;
- A seminar on the topic "December 1- the Day of the first President" was held by the advisor Diba T.V. with students;
- Participation of student Amangeldinova Aydin, a student of the BIS-31c group in Astana in kazaksha kures, in which he took 2nd place;
- Participation of a student of the Kusa A. BIS – 11 group in the international competition "creative workshop", in which she took 3rd place;
- Youth meeting on the topic "How are you student?" with representatives of the Ecibastuz CRMI;

- At the invitation of the Financial Monitoring Agency of the Republic of Kazakhstan for the Pavlodar region, our activists Nurakhmetova Madina gr. BF-21 and Ismayilova Nargiz gr. BTE -21 went to a meeting in Pavlodar on the topic "The procedure for admission and employment in financial monitoring bodies";
  - Republican action on the theme "Zorlyk-zombylykka zhol zhok";
  - Student Gazizulina Kamila BE-11, took part in the Republican competition "Makataev okulary" and took 2nd place;
  - A meeting with participants of the December 1986 events took place in the "House of Friendship";
    - An intellectual battle called the "Mind Game";
    - Participation in a table tennis tournament
    - Training game on the theme "Zorlyk – zombylyksyz 16 kun";
    - Participation in the forum ""ADAL AZAMAT: CREATIVTI ZHASTAR" in Ekibastuz;
    - Challenge "Tolyk adam", Abai Kunanbayev okulary;
    - A memorandum was signed with the director of the KSU "Center for the Development of Youth Initiatives" Kusa E.;
    - A meeting with the chairman of the Territorial Election Commission of the city of Ekibastuz Ospanova A.T. on the day of "World Election Day";
    - Meeting with employees from the Center for Analysis and Development of Interfaith Relations LLP with theologian Babazhanov G.D. and Inspector Zhumasheva M.A. on the topic "Religious education and secular life";
    - Acquaintance with the work of Zhastar Rukhy;
    - Interdepartmental meeting on the topic "Prevention and prevention of drug offenses, extortion, fraud among students", in Pavlodar;
    - Participation in the debate tournament "JASTAR CUP I", the teams "Danyshpan" and "Agent\_147", in which the team "Danyshpan" took 1st place;
    - Video congratulations from students on "Thanksgiving Day" "The key to happiness is gratitude";
    - "MINBIRDE: Kaipsizdik" expert platform on the topics "Alayaktardyn ayla-amaldaryna kalai tuspeuge bolady", "Ludomania-bul aura", "Infobusiness – tabyska zhetudin zholy ma", "Erler men aielderin reproductivti zhuyesi" with speakers"ALAYAQ.NET ";
    - A basketball tournament was held with schoolchildren of grades 7-8, in honor of the 30th anniversary of the Institute and the 125th anniversary of K.Satpayev;
    - Festive concert "Tugan yelge myn algys";
    - Participation in the international seminar – meeting with student youth "ZHASTAR KUATY – TABYSTY KELESHEKKE BIR KADAM", in Pavlodar, at Toraigyrov University;
    - Video congratulations from our students on the 8th of March;
    - The spartakiad "Merry Starts" was held among the female staff of the teaching staff, dedicated in honor of the memory of the founder of the institute, academician M.P. Mardenov, the 125th anniversary of Kanysh Satpayev;
    - On March 11, a student of the BGD-11k group, Ablaev Rasul, assumed the position of student Ombudsman;

- Video greetings from the teaching staff on the day of the Amal holiday – "Korisu kuni";
- Video congratulations from students on the day of the Amal holiday - "Korisu kuni";
- Ulttyk kiim kuni;
- The Institute congratulated veterans of Ekibastuz with food products in honor of the Nauryz holiday;
- Conducted by Auyz ashar to students and faculty of the Institute;
- By the Day of National Sports, national sports games were held at the institute, in which our KINGS team took the first place;
- Participation in the "Option Tour" project as part of the promotion of technical and professional, higher specialties of the youth of Ekibastuz;
- Excursion platform "Kazaktyn Kanyshy" dedicated to the 125th anniversary of Kanysh Imantaevich Satpayev, for ethnocultural associations of KSU "Dostyk uyi";
- Organization of an open volleyball tournament among students dedicated to the 15th anniversary of K.Satpayev and the 30th anniversary of the Institute;
- Organization of an open volleyball tournament among rural youth dedicated to the 15th anniversary of K.Satpayev and the 30th anniversary of the Institute;
- Preventive conversation on the topic of "Gambling addiction (ludomania): causes, stages, prevention" from the old.the teacher. Department of "SRS" Aitomova A.K.
- Participation in the republican environmental campaign "Taza Kazakhstan: Zhasyl aimak", in honor of the 35th anniversary of the withdrawal of internationalist warriors in the park of Ekibastuz "Taza Kazakhstan: Ekibastuz – korkem kala men audan";
- Participation in the republican environmental campaign "Taza Kazakhstan: Zhasyl aimak" on the improvement of the territory of historical and cultural monuments of sacred places "Kielimeken";
- Acquaintance in the city library "Otan ushin from keshkender" with the history and biography of the heroes of the Kazakh SSR, dedicated to the 100th anniversary of Rakymzhan Koshkarbayev;
- Participation in the ECO-CROSS-2024 environmental marathon;
- Solemn send-off of conscripts of "Zhastardyn paryzy - Otandy korgau", dedicated to the Day of Defenders of the Fatherland;
- Laying flowers on the Eternal Flame in honor of Victory Day;
- The centralized library of Ekibastuz organized a book exhibition "Tutas dauirdinmzhuldyz tulgasy" in honor of the 125th anniversary of academician K.I. Satpayev at the Institute;
- Video congratulations from graduates of all years of the Institute in honor of the memory of the founder of the Institute, academician Mardenov M.P., the 125th anniversary of Kanysh Satpayev and the 30th anniversary of the Institute;
- A festive event dedicated to the 125th anniversary of the birth of K.I. Satpayev, to the 84th anniversary of the birth of academician M.P. Mardenov and the 30th anniversary of the EITI named after academician K. Satpayev;
- Meeting with the daughter-in-law of the veteran of the Great Patriotic War, military leader, brave commander, writer, Hero of the Soviet Union Bauyrzhan Momyshuly Zeynep Akhmetova at the GCC "Oner";

- Took part in the ceremony of laying flowers at the monument dedicated to the Day of Remembrance of Political Victims;
- Took part in the solemn event dedicated to the Day of State Symbols of the Republic of Kazakhstan;
- Held an action on singing the anthem "Menin Kazakhstanym" and the song "Atameken" in the Maximall entertainment center, dedicated to the Day of State Symbols of the Republic of Kazakhstan;
- On June 30, a graduation ceremony was organized for graduates of the Institute.

## 7. Material and technical base

Institute has a strong material and technical base. 3 educational blocks/buildings equipped with the necessary number of classrooms, including:

- 14 computer classes, 11 interactive whiteboards with projectors;
- 29 laboratories at the university;
- access to certified laboratories based on the city - forming enterprises has been provided;
- library and 3 reading rooms;
- 312 computers, the ratio with the given number of students is about 20%;
- a set of virtual laboratory work that allows you to perform experiments in real time in the disciplines of "Chemistry", "Resistance of materials", "Electric drive" (specialty TMO), "Physics", "Materials Science", "Engineering Mechanics", etc;
- The distance learning portal uses the Online Education System for distance and full-time education for educational institutions with support for proctoring and webinars from OES LLP (<https://oes.kz>).
- The portal is operating normally;
- methodological materials providing support for the educational process have been uploaded;
- Conditions have been created for the teaching staff to work remotely;
- interaction between participants of the educational process on DOT is ensured;
- All participants in the educational process are provided with access to the electronic libraries of the university and partners.

Each building has a separate medical center and a catering center.

The Institute has a sufficient fund of educational, methodological and scientific literature on general education, basic and specialized disciplines of educational programs, including in the state language, and the effectiveness of its use; the updating of literature collections in accordance with the norms defined by the qualification requirements for licensing.

Library staff periodically conduct training seminars in collaboration with teachers in order to teach students how to use an electronic database, find, evaluate, organize and effectively use information to solve problems.

The library staff of the Institute actively interacts with representatives of other structural divisions of the university, including teachers (in planning curricula and

classes), as well as with the staff of the Central Educational Institution. Librarians also help students evaluate the sources available to them, and computer staff to understand student requirements for ICT-based student support systems being developed and implemented.

The availability of educational literature on electronic media, the share of electronic educational materials in the total volume of library resources; electronic textbooks developed by university teachers meet the qualification requirements for licensing, which is confirmed by the results of verification of compliance with the qualification requirements for the organization of higher education COXON of the Ministry of Education and Science of the Republic of Kazakhstan in January 2024.

The availability of electronic textbooks, electronic reading room fund, educational TV, etc. for students is provided in both offline and online formats.

The university has an electronic catalog of educational materials (textbooks, teaching materials and other educational literature)

The number of annual subscription publications on the profile of the university on paper did not exceed three titles during the entire analyzed period and provided the need for economic and pedagogical areas, and the needs of technical areas were provided by online industry subscriptions, which meets the modern requirements of digitalization of the information and educational space. Periodicals in all areas of training are available around the clock on the servers of the State Institution "Republican Scientific and Technical Library" (RNTB) and the Republican Interuniversity Electronic Library, to which the Institute is subscribed.

The assessment of the dynamics of the development of material and technical resources is carried out on an annual basis. The effectiveness of using the evaluation results for adjustments in planning and budget allocation is determined by the level of achievement of key indicators of the Institute's development and is discussed at the collegial level. All the intermediate indicators defined by the strategic development plan were achieved in certain periods, which indicates the effectiveness of monitoring and control systems for the allocation of budget funds.

The Institute strives to continuously improve the suitability, adequacy and effectiveness of the QMS and its processes. The management of the Institute considers continuous improvement as a priority goal aimed at ensuring customer satisfaction. The Institute reviews and analyzes the results of analysis and evaluation (ratings of educational organizations published on the Internet), the output of management analysis, the results of internal and external audits, the results of corrective and preventive actions to determine whether there are needs or opportunities that require consideration as measures for continuous improvement.

The Institute strives to improve the quality management system through the revision of the quality policy, quality objectives, planning and implementation of measures for improvement.

## Выводы и задачи

In 2024, the EITI named after Academician K.Satpayev plans to provide post-accreditation reports on the following educational programs:

1. 6B11320 Organization of transportation by rail;
2. 6B11310 Organization of transportation by road;
3. 6B07122 Electric power industry (Power supply to industrial enterprises and cities);
4. 6B07121 Electric power industry (Power stations);
5. 6B07160 Transport, transport equipment and technologies (Cars);
6. 6B07150 Transport, transport equipment and technologies (Wagons);
7. 6B07230 Mining (Underground mining of mineral deposits);
8. 6B07210 Mining (Open-pit mining);
9. 6B07110 Thermal power engineering;
10. 6B07310 Construction;
11. 6B07140 Technological machinery and equipment (Mining machinery and equipment);
12. 6B07222 Metallurgy, as well as the institutional post-accreditation report.

All teachers and senior staff of the Institute have been qualified over the past 5 years. To continue monitoring and work on the constant professional growth of the faculty of the Institute.

The teaching staff of each field of study received the results of their scientific research (author's certificates and patents).

The number of computers used by the Institute in the educational process amounted to more than 300 units.

The Institute has developed a system of student self-government: - Chairman of the Student Council. Participates in the work of the Academic Council; - Student Council of the Institute; youth Affairs Committee; student Parliament.

Students take an active part in various activities within the institute, city and region

Updates have been introduced to modular educational programs and catalogs of elective disciplines that ensure the implementation of new models and the content of continuing education, including using modern information and communication technologies.

Systems of key performance indicators of the Institute have been introduced, allowing an objective assessment of the results of the teaching staff of the Faculty, administrative staff and students of the Institute and timely influence and adjust the management strategy of the Institute.

For more than 30 years of its existence, the EITI named after Academician K.Satpayev has concentrated its efforts on joint activities with employers, businesses and government structures in the region. This activity made it possible, firstly, to introduce practice-oriented training. Secondly, from a traditional institution to become a real subject of the region's economy. Thirdly, to become a center for conducting research on the orders of enterprises, the real integration of science and education, by involving teachers and students in research. Fourthly, to develop the integration of the institute and business in the field of creation and implementation of joint educational programs in the

educational process for targeted training of specialists, participation of employers in the educational process, final certification of specialists, as well as in the field of integration, creation of practice bases and in-depth professional training of specialists with practical training on the basis of enterprises, starting from 1-1st year, dual, inclusive education and dual degree programs.

In order to further improve the activities of the departments of the Institute in accordance with the Mission and policy of the EITI named after Academician K.Satpayev, activities are underway to:

- attracting investments and obtaining additional financial resources for scientific , technical and consulting services for scientific and innovative activities - further integration of science with production, strengthening the material and technical base of the laboratory and developing cooperation with enterprises in the region, as well as with domestic and foreign academies and centers, taking into account the requests of the EITI and the region;

- there is an active search for investors, both domestic and foreign;
- International scientific cooperation is expanding with participation in joint scientific-practical, scientific-technical and scientific-methodological conferences, seminars, exhibitions, competitions;

- Development and implementation of new educational technologies and learning support systems;

- Development of international cooperation in the system of continuing education;

- development of research activities;

- Development of international scientific cooperation;

- organization of effective management and implementation of corporate governance principles;

- support and stimulation of professional growth of scientific and pedagogical workers;

- Creation of a system for working with talented youth and the alumni community of the Institute;

- improvement of the organizational structure;

- formation of an effective management system;

- Improving the civic and patriotic education of young people.

Rector of the K.Satpayev EITI,  
Ph.D., Associate Professor

Sivaraksha D.M.