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Report on accreditation of the new study programs

ACTIVITY PERIOD 15/12/2021-10/01/2024

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Project acronym:	DIARKAZ
Project full title:	Dual Education for Industrial Automatization and Robotics in Kazakhstan
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Abstract	This is a narrative report on the accreditation of a new educational program in all partner universities in Kazakhstan.
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1.0	20/07/2023	First draft	KEnEU
2.0	10/01/2024	Addition of information on accreditation of INEU EPs	INEU

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Accreditation of the educational program Robotic Systems at KEnEU

According to contract № 111-CA dated December 15, 2021, the Non-profit institution "Independent Agency for Accreditation and Rating" conducted an evaluation of the dual educational program 6B07138 "Robotic Systems" according to the Standards of primary specialized accreditation (Ex-Ante).

The main stages of the accreditation process were:

1. Initial familiarization with the educational program;
2. Conducting the self-assessment process of the educational program in accordance with accreditation standards;
3. Analysis and assessment of self-assessment reports, preparation of an expert conclusion with comments and suggestions on the reports of the accredited educational program;
4. Study and analysis of the final edition of the self-assessment report;
5. Visit of the external expert commission (EEC) to evaluate the educational program;
6. Making a decision on accreditation by the Agency's Accreditation Council.

The external expert commission of the IAAR for the evaluation of the quality of the EP included:

- Chairman of the EEC - Vladimir Nikolaevich Kosov, Doctor of Physical and Mathematical Sciences, Professor of the Abai Kazakh National Pedagogical University, member of the Expert Council for Higher Education of the IAAR, first category expert (Almaty, Republic of Kazakhstan). Off-line participation;
- IAAR Coordinator - Gulyash Balkenovna Niyazova, project manager for conducting institutional and specialized accreditation of universities (Nur-Sultan, Republic of Kazakhstan). Off-line participation;
- IAAR Expert - Sheripidin Itakhunovich Hamraev, Candidate of Technical Sciences, Professor of the Abai Kazakh National Pedagogical University (Almaty, Republic of Kazakhstan). Evaluation of the EP 6B07138 Robotic Systems. Off-line participation;
- IAAR Expert, employer - Baijan Nurbayevich Ualhanov, Candidate of Technical Sciences, Professor of the Innovative Eurasian University, Director of the Pavlodar Agricultural Experimental Station (Pavlodar, Republic of Kazakhstan). On-line participation;
- IAAR Expert, employer - Askar Aituaov, head of the representative office of Singularity University Almaty, founder of IT company Clicklog.io (Almaty, Republic of Kazakhstan). Evaluation of the EP 6B07138 Robotic Systems. On-line participation;
- IAAR Expert, student - Zhumash Aitjanuly Bekmyrza, student of the EP 8D07102 Technological Machines and Equipment (Mechanical Engineering) of the Kostanay Regional University named after A. Baitursynov (Kostanay, Republic of Kazakhstan). Off-line participation;
- IAAR Expert, student - Dias Muratovich Muratov, 3rd year student 6B07111 Robotics and Mechatronics of the Kazakh National Research Technical University named after K.I. Satpayev (Almaty, Republic of Kazakhstan). On-line participation.

Table 1. Program of the visit of the external expert commission of the IAAR using a hybrid model in the period from April 26 to April 28, 2022.

Date and Time	Work of the EEC with target groups	Position and Full Name (Surname, First name, Patronymic) of the target group participants
April 25, 2022		
10.00-10.30	Preliminary meeting of the EEC	<i>External experts of the IAAR</i>
Day 1: April 26, 2022		
10.00-10.30	Distribution of experts' responsibilities, resolution of organizational issues	<i>External experts of the IAAR</i>
10.30-11.10	Interview with the president	<i>President – Sabit Borisovich Ismuratov, Doctor of Economic Sciences, Professor</i>
11.10-11.25	Technical Break	
11.25-12.05	Interview with Vice-Rectors	<i>Vice-Rector for Academic Development – Gulnara Malikovna Kushebina; Candidate of Economic Sciences Vice-Rector for Science and Innovation – Amangeldy Bulatovich Shayakhmetov; Candidate of Technical Sciences, Associate Professor</i>
12.05-12.20	Technical Break	
12.20-13.00	Interview with Heads of Structural Divisions	<i>Head of the Department of Planning and Organization of the Educational Process – Yelena Petrovna Kholina Head of the Registrar's Office – Galina Anatolyevna Sokur Head of the Student Service Center – Aigerim Sharipovna Serikbayeva Head of the Department of Digitalization and Information Technologies – Alisher Amantayevich Amantayev Director of the Department of Distance Education – Aida Kalikanovna Dukeyeva Head of the Distance Education Center – Ivan Viktorovich Kulagin Head of the Accreditation and Rating Sector – Alyona Sergeyevna Gorbenko Head of the Academic Council – Natalya Alexeyevna Kamysheva Head of the Center for International Cooperation and Project Implementation – Zhanat Galimzhanovna Jabassova Head of the Department of Marketing and Communications, Head of the Department of Youth Policy – Amina Amirova Zhakupova Head of the Research Sector – Dinara Bulatovna Zhamalova Secretary of the Academic Council – Lyudmila Vladimirovna Lyakhovetskaya Director of the "Career" Center – Ay-Gul Seraliyevna Segizbayeva Executive Secretary of the Admission Committee – Akbota Zhanibekovna Sabanova</i>

		<p>Head of the Personnel Management Service – Inna Sergeyevna Karkavina</p> <p>Librarian – Urkiya Mukhamadiyarovna Ryschanova</p> <p>Chief Accountant – Marina Georgiyevna Lissogor</p> <p>Director of the Sports and Wellness Complex – Tatyana Alexandrovna Chernyshova</p> <p>Head of the Council of Young Scientists – Mariya Fyodorovna Kozlova</p> <p>Head of the Department for Development and Operation of Infrastructure – Rsaldy Bolatovna Abdrakhmanova</p>
13.00-14.00	Lunch	
14.00-14.15	Work of the EEC	External experts IAAR
14.15-15.00	Interview with the Dean	Dean of the Engineering and Technological Faculty – Tarbiye Kabatayevna Mukasheva, Candidate of Technical Sciences, Associate Professor
15.00-15.15	Technical Break	
15.15-16.00	Interview with the head of the EP, head of the department	Head of 6B07138 Robotic Systems – Inna Ivanovna Gerauf, Master, Senior Lecturer
16.00-16.15	Technical Break	
16.15-17.00	Interview with the EP's teaching staff (in parallel)	Appendix №1 List of teaching staff for the interview
17.00-18.30	Survey of the teaching staff (in parallel)	All teaching staff of the assessed EP Appendix №1.1
17.00-17.15	Technical Break	
17.15-18.30	Visual inspection of the educational organization	
18.30-18.40	Work of the EEC. Summing up the first day	External experts IAAR
Day 2: April 27, 2022		
10.00-10.15	Work of the EEC	External experts IAAR
10.15-10.30	Technical Break	
10.30-11.10	Interview with students of the EP (in parallel)	Students of the EP (Appendix № 2)
11.10-13.00	Survey of students of the EP	All students of the assessed EP (Appendix № 2.1)
11.10-11.25	Technical Break	
11.10-13.00	Work with department documents and attendance of teaching staff classes according to the schedule	
13.00-14.00	Lunch	
14.00-14.15	Work of the EEC	External experts IAAR
14.15-14.30	Technical Break	
14.30-16.00	Visiting the EP's practice bases (Appendix 3)	
16.00-16.15	Technical Break	
16.15-16.30	Work of the EEC, discussion	External experts IAAR

16.30-17.10	Work with department documents and attendance of teaching staff classes according to the schedule	
17.10-18.30	<i>Technical Break</i>	
18.30-19.20	Interview with employers (<i>Appendix 3.1</i>)	
19.20-20.40	Work of the EEC, discussion of the second day results and profile parameters	<i>External experts IAAR</i>
Day 3: April 28, 2022		
09.00-10.00	Work of the EEC, Discussion of the quality assessment results	<i>External experts IAAR</i>
10.00-10.15	<i>Technical Break</i>	
10.15-10.40	Final meeting of the EEC with the university leadership	<i>External experts IAAR</i>
10.40-11.15	<i>Technical Break</i>	
11.30-12.00	Summing up of the EEC	<i>External experts IAAR</i>

Appendix №1 List of teaching staff for interview (by clusters)

EP	№	Full Name	Position
6B07138 Robotics Systems	1	Inna Gerauf	Senior Lecturer
	2	Dinara Aldasheva	Senior Lecturer
	3	Igor Koval	Senior Lecturer
	4	Indira Alkambay	Senior Lecturer
	5	Gulziya Yeskatova	Senior Lecturer
	6	Gulmira Zhandarbekova	Senior Lecturer
	7	Kuat Zhunusov	Candidate of Technical Sciences, Senior Lecturer
	8	Aynur Kazova	Lecturer
	9	Talgat Zhuaspayev	Senior Lecturer
	10	Askarbek Sadykov	Senior Lecturer
	11	Vassily Podvalny	Senior Lecturer
11	Yury Klassen	Candidate of Technical Sciences, Associate Professor	

Appendix №1.1 List of teaching staff for survey (by clusters)

EP	№	Full Name	Position
6B07138 Robotics Systems	1	Inna Gerauf	Senior Lecturer
	2	Dinara Aldasheva	Senior Lecturer
	3	Igor Koval	Senior Lecturer
	4	Indira Alkambay	Senior Lecturer
	5	Gulziya Yeskatova	Senior Lecturer
	6	Gulmira Zhandarbekova	Senior Lecturer

	7	Kuat Zhunusov	Candidate of Technical Sciences, Senior Lecturer
	8	Aynur Kazova	Lecturer
	9	Talgat Zhuaspayev	Senior Lecturer
	10	Askarbek Sadykov	Senior Lecturer
	11	Vassily Podvalny	Senior Lecturer
	12	Yury Klassen	Candidate of Technical Sciences, Associate Professor

Appendix №2 List of students of EP by clusters (by levels) for interview

EP	№	Full Name of the student	Responsible staff member
6B07138 Robotics Systems	1	Alan Abdrashev	Vassily Podvalny
	2	Alexander Privalov	
	3	Damir Almukhambetov	
	4	Arthur Danilenko	
	5	Andrey Shandro	
	6	Aset Murzaqan	

Appendix No.2.1 List of EP students by clusters (by levels) for questioning

EP	№	Full Name of the student	Responsible staff member
6B07138 Robotics Systems	1	Alan Abdrashev	Vassily Podvalny
	2	Alexander Privalov	
	3	Damir Almukhambetov	
	4	Arthur Danilenko	
	5	Andrey Shandro	
	6	Aset Murzaqan	

Appendix № 3 List of Practice bases

Organization	№	University Subdivision	EP	Адрес организации Address of the Organization	Person Responsible / Full Name
"SaryarkaAvtoProm" LLP	1	Department "Transport and Service"	6B07138 Robotics Systems	Kostanay, Promyshlennaya St. 41	Lyudmila Olkinyan

Appendix № 3.1 List of employers for the interview

EP	№	Full Name of the Interviewee	Name of the Organization	Position
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6B07138 Robotic systems	1	Lyudmila Olkinyan	"SaryarkaAvtoProm" LLP	Head of the Corporate University
	2	Saken Makayev	"SaryarkaAvtoProm" LLP	Engineer of Instrumentation and Automated Control Systems

As a result of the accreditation, the External Evaluation Commission (EEC) noted the following:

- The content of the educational program and its implementation sequence ensure that students achieve the planned learning outcomes.
- The results of the teaching staff's questionnaire showed a high evaluation (100%) of the university's attention to the educational program's content. 52.3% of the teachers who participated in the survey responded very well, while 47.7% responded well.
- The main advantage of this program is the implementation of a dual learning system, with more than 40% of students' academic load being based on practical training, specifically at "SaryarkaAvtoProm" LLP.
- The university is committed to developing objective means of evaluating students' knowledge, using the latest version of ECTS recommendations and conducting a clear anti-corruption policy.
- Employers especially noted the need to include practice-oriented disciplines in elective courses catalogs, as well as to involve more practitioners in the teaching process.
- Both students and teaching staff expressed positive opinions about the implementation of the educational program, which was later confirmed by survey results.
- The university demonstrates planning to equip the educational program with educational equipment and software similar to those used in corresponding economic sectors.
- The university demonstrated on its web resource information about cooperation and interaction with partners within the framework of the educational program.

The EEC also provided the following recommendations:

- Include in the development plan of the educational program a risk management event in the department's activities on student recruitment and material and technical support of the educational process.
- Include measurable indicators for the implementation of innovative proposals in the educational program's development plan.
- Develop an updated graduate model and an educational program development plan with specific measurable indicators in line with the university's development strategy.
- Ensure external expertise of the planned learning outcomes overall for the educational program and for the modules.
- Ensure the publication on the official university website information about all changes made in the educational program during the implementation of the dual education system.
- Expand the educational program development plan, considering the introduction of modern innovative technologies into the educational process and conducting research to develop its own teaching methods in the context of implementing a dual education system.
- Expand the educational program development plan through the development of academic mobility, improving the qualifications of teaching staff, attracting the best

foreign and domestic teachers, and conducting joint research in the profile of the accredited educational program.

- Expand the educational program development plan by including activities for the development of educational and scientific laboratories.

As a result of the evaluation of the educational program, the Accreditation Council of the Independent Agency for Accreditation and Rating (IAAR) decided to accredit the "Robotic Systems" educational program for 5 years.



Figure 1. Certificate of Accreditation for the "Robotic Systems" Educational Program of KEEU

Accreditation of the educational program Robotic Systems at WKATU

In accordance with contract No. 14 dated February 1, 2022, the Non-State Institution "Independent Agency for Quality Assurance in Education (IQAA)" carried out initial program (specialized) accreditation for the educational program 6B07107 - "Robotic Systems" from May 30 to June 1, 2022.

Initial program accreditation (ex-ante) of higher education institutions is a procedure for evaluating the quality of an educational program (licensed by the state for educational activities under the program) without graduates and employers for compliance with the claimed status and standards of the accreditation body. The status of initial accreditation of the educational program is granted when the proposed or developing program demonstrates its potential to meet the IQAA accreditation standards, developed based on ESG.

Initial program accreditation includes all procedures for conducting an external audit in accordance with the standards and criteria for program accreditation of the organization's educational activities/educational program, with the exception of interviews with graduates and employers, and the implementation of the recommendations of the expert group after obtaining the status of initial accreditation.

Table 2. Composition of the expert group for conducting an external audit within the framework of program accreditation

№	Surname, Name, Patronymic	Position, Academic Degree, Academic Title	Status of the Group Member
1	Botagariyev Tolegen Amirzhanovich	Head of the Department of Theory and Methods of Physical Education, Professor, Doctor of Pedagogical Sciences, Aktobe Regional University named after K. Zhubanov	Group Leader, Expert
2	Baideldinov Marat Uraskanovich	Acting Associate Professor of the Department of "Computational Techniques", Candidate of Technical Sciences, L.N. Gumilyov Eurasian National University (6B07107 Robotic Systems)	National Expert
3	Gabdullina Zukhra Mindvayevna	Director of Upper Ural Humanitarian and Economic College	Employer Representative
4	Islamgali Yelaman Askaruly	4th year student of "Information Systems" specialty, West Kazakhstan University named after M.Utemisov	Student Representative
5	Zhuvarova Aida Sayatovna	Coordinator of the Department of Accreditation of Universities and Research Institutes, Independent Agency for Quality Assurance in Education (IQAA)	Coordinator

Table 3. IQAA expert group external audit program for program accreditation during the period May 30 - June 1, 2022.

Time	Event	Participants	Location
May 30, 2022			
Arrival	Hotel	Throughout the day	EG members
Day 1: May 31, 2022			
09.30	Arrival at the University	R, EG, C	Cabinet EEG
10:00-11:00	Briefing, discussion of organizational	R, EG, C	Cabinet EEG

	issues		Conference link
11:00-11:30	Interview with the University Rector	R, EG, C, Rector	Rector's office Conference link
11:30-11:45	Exchange of views among members of the external expert group	R, EG, C	Cabinet EEG Conference link
11:45-12:15	Interview with vice-rectors of the University	R, EG, C, Vice-rectors	Конференц-зал Conference link
12:15-12:30	Exchange of views among members of the external expert group	R, EG, C	Cabinet EEG Conference link
12:30-13:00	Interview with heads of structural divisions	R, EG, C, HSD	Cabinet EEG Conference link
13:00-14:00	Lunch	R, EG, C	University canteen
14:00-15:00	Visual inspection of the material and technical and educational laboratory base for the directions of accredited educational programs: aud.06-205 Cabinet of Mechatronics and Industrial Robots Management; aud.06-108 Experimental site for the production of an innovative repair kit; aud.05-110 Educational laboratory of metal-cutting tools	R, EG, HSH	Educational building Conference link
15:00-15:30	Interview with directors and heads of higher schools in the directions of training	R, EG, C, HSH	Cabinet EEG Conference link
15:30-15:45	Exchange of views among members of the external expert group	R, EG, C	Cabinet EEG Conference link
15:45-16:15	Interview with students, doctoral students (parallel session)	R, EG, C, Students	Cabinet EEG Conference link
16:15-16:30	Exchange of views among members of the external expert group	R, EG, C	Cabinet EEG Conference link
16:30-17:00	Interview with employers (parallel session)	R, EG, C, Employers	Cabinet EEG Conference link
17:00-17:15	Exchange of views among members of the external expert group	R, EG, C	Cabinet EEG Conference link
17:15-17:45	Technical break		
17:45-18:00	Exchange of views among members of the external expert group	R, EG, C	Cabinet EEG Conference link
18:00-18:30	Interview with faculty of higher schools in the directions of accredited educational programs (parallel session)	R, EG, C, Faculty	Cabinet EEG Conference link
18:30-18:45	Exchange of views among members of the external expert group	R, EG, C	Cabinet EEG Conference link
Day 2: June 1, 2022			
9:30	Arrival at the University	R, EG, C	Educational Building
10:00-11:00	Visit to the Student Services Center, Student Contingent Formation Center, Parasat Information and Education Center, Research Support Department, Sunqar Sports Club, Zhanqir Khan Sports Complex. Selective exam visit.	R, EG, Staff, Faculty, Students	Cabinet EEG Conference link
11:00-12:30	Visit to practice bases JSC "Intergas Central Asia", JSC "Condensate", LLP	R, EG, C, Practice base	Cabinet EEG Conference link

	"Uralsky Transformer Plant", JSC "West Kazakhstan Engineering Company", JSC "Uralskagrorammash"	representatives	
12:30-13:00	Invitation of heads of higher schools at the request of experts	R, EG, C	Cabinet EEG Conference link
13:00-14:00	Lunch	R, EG, C	Institute canteen
14:00-16:00	Preparation of external audit reports. Studying documentation for accredited educational programs. Inviting individual representatives of higher schools and structural divisions at the request of experts.	R, EG, HSH, HSD	Cabinet EEG Conference link
16:00-17:00	Exchange of opinions among members of the external expert group. Summarizing the preliminary results of the external audit.	R, EG, C	Cabinet EEG Conference link
17:00-17:30	Meeting with the leadership to present the preliminary results of the external audit	R, EG, C	Rector's office Conference link

Abbreviations:

EG - Expert Group, R - Rector, C - Coordinator, HSD - Heads of Structural Divisions, HSH - Heads of Higher Schools, EP - Educational Program, HS - Higher School.

Appendix 1.

Participants in the interview for conducting an external audit within the framework of program accreditation of the educational program 6B07107 - Robotic Systems

№	Full Name	Position, academic degree, title
University Rector		
1	Nametov Askar Myrzakhmetovich	Chairman of the Board - Rector, Doctor of Veterinary Sciences, Professor, Academician
University Vice Rectors		
1	Taubayev Utegen Bairgaliyevich	First Deputy Chairman of the Board - Vice-Rector for Strategic Development and Finance, Doctor of Veterinary Sciences, Professor
2	Gubashev Nurken Maratovich	Deputy Chairman of the Board - Vice-Rector for Academic Affairs, Doctor of Agricultural Sciences, Associate Professor
3	Shamshidin Alzhan Smaiyluly	Chairman of the Board - Vice-Rector for Science, Candidate of Agricultural Sciences, Associate Professor
4	Sultanov Akylbek Uzakbayevich	Deputy Chairman of the Board - Vice-Rector for Educational and Social Work, Candidate of Agricultural Sciences, Associate Professor
Heads of Structural Units		
1	Tagayev	Director of the Department of Production, Technical

	Orynbai Orazbekovich	and Infrastructure Support, Doctor of Veterinary Science, Professor
2	Bogdashkina Irina Vyacheslavovna	Head of the Department of Strategic Development and Analysis, Candidate of Economic Sciences, Associate Professor
3	Almagambetova Maira Zhaubasarovna	Head of the Department of Education Management and Monitoring, Candidate of Technical Sciences, Associate Professor
4	Bakushev Askar Asylgalievich	Head of the Academic Affairs Department, Candidate of Technical Sciences, Associate Professor
5	Kazambayeva Aigul Mamayevna	Head of the Department of Science, Candidate of Economic Sciences, Associate Professor
6	Undaganova Aliya Galimovna	Acting Head of the Personnel Department
7	Ikhsanov Esenzhan Baurzhanovich	Head of the Legal Department
8	Bisengaliyev Azamat Khaerbekovich	Head of the Department of State Procurement
9	Sakhiyev Bolatbek Zhetkergenovich	Head of the Information Work Department
10	Yessenamanova Aigul Bazarovna	Director of the Information and Education Center "Parasat"
11	Iskaliyeva Ainagul Tukenovna	Director of the Language Development Center
12	Kamalova Gaukhar Abdumutalipovna	Director of the Digital Development Center, Candidate of Physical and Mathematical Sciences, Associate Professor
13	Rakhimgaliyev Beibit Kilanbekovich	Director of the Student Contingent Formation Center
14	Sultanova Zamzagul Khamitovna	Director of the Career and Business Partnership Center, Candidate of Economic Sciences, Associate Professor
15	Okshibaev Askhat Erbolatuly	Director of the Center for Youth Initiatives Development
16	Tarshilova Lyudmila Sergeyevna	Head of the Department of Continuing Education, Qualification Upgrade, Candidate of Economic Sciences, Assistant Professor
17	Dushayeva Laura Zhanabilovna	Head of the Department of International Cooperation, PhD
Director of the Institute		
1	Montayev Sarsenbek Aliakbaruly	Director of the Industrial-Technological Institute, Doctor of Technical Sciences, Professor
Head of the Higher School.		
1	Kushaliyev Dauren Kaysarovych	Head of the "Mechanical Engineering" Higher School, PhD
Lecturers of the Higher School		
1	Davletyarov Altynbek Sharipuliyevich	Associate Professor, Candidate of Technical Sciences
2	Imangaliyev Ansarbek Sabyrgaliyevich	Senior Lecturer, Master's Degree
3	Zhumagaliyeva Gaukhar	Senior Lecturer, Candidate of Technical Sciences

	Bolatovna	(RF)
4	Satybayeva Nurgul Artygaliyevna	Senior Lecturer
5	Diyarova Lunara Bakytzhanovna	Senior Lecturer, Master's Degree
6	Abuova Zhanargul Mukhanbetzhanovna	Senior Lecturer, Master's Degree

Students of the Robotic Systems Educational Program		
№	Full Name	Course(GPA)
1	Bekkusov Arslan Yerbolatuly	1st year (3.11)
2	Dalabayev Dinislam Erkinuly	1st year (3.17)
3	Zholtai Damir Abzaluly	1st year (3.21)
4	Zhumabekov Farhat Qayratuly	1st year (1.89)
5	Kanatov Rizabek Gabdulfarituly	1st year (2.9)
6	Serikkali Ali Kairgaliuly	1st year (2.6)
7	Tynyshbayev Rishat Qoblanuly	1st year (2.7)
8	Shanazar Temirlan Kuraldykuly	1st year (2.9)
Representatives of Employers		
№	Full Name	Place of work, position
1	Assan Turar Assanuly	Technical Director of "Uralsky Transformer Plant" Ltd.
2	Salimgareyev Alexandr Raisovich	Design Engineer of West Kazakhstan Machine Building Company JSC
3	Bissekov Nurkhat Kanatovich	Head of the Control Programs department of West Kazakhstan Machine Building Company JSC

As a result of the accreditation, EEC noted the following:

- The internal system for guaranteeing the quality of education includes the university level, the level of institutes, the level of higher schools (HS) and the level of participants in the educational process (including students and teachers).
- The administration at all levels, faculty and students participate in shaping and supporting the policy of quality assurance of the Educational Program (EP).
- The main advantage of this program is the implementation of a dual education system, the presence of constant cooperation with stakeholders, potential employers-representatives of real production, conducting practice-oriented sessions in profile enterprises.
- Participation in teaching and consulting disciplines of the educational program by highly qualified specialists from production.
- Good equipment with laboratory equipment and technical means for the educational program.
- Sufficiently multifunctional centers and departments for providing educational, educational, advisory assistance in implementing the EP.

The EEC also provided the following recommendations:

- Consider the possibility of opening sections of the corporate website related to ensuring the quality of the EP, which should be publicly available to external interested parties.

- Consider the possibility of providing general access to the resources of the EP corporate website for stakeholders and employers.
- Continue the work on implementing dual education.
- Agree on a catalog of elective disciplines with social partners/employers.
- Ensure that students are informed about the results of the survey.
- Strengthen faculty or consider the possibility of increasing qualifications or internships of all faculty for this EP in domestic and foreign universities and enterprises.
- Increase the library fund of educational, methodological and scientific literature on the special disciplines of the EP 6B07107 - "Robotic Systems", including in the state language.

As a result, the educational program 6B07107 - "Robotic Systems" has been accredited for 5 years.





Figure 2. Certificate of Accreditation for the Robotic Systems Educational Program of WKATU

Accreditation of the educational program Robotics Systems at INEU

According to the contract No. 56 dated 11.09.2023, the non-state institution "Independent Quality Assurance Agency in Education (IQAA)" conducted the primary programme (specialised) accreditation for the educational programme 6B07107 "Robotics Systems" on December 11 - December 12, 2023.

Primary programme accreditation (ex-ante) of higher education institutions is a procedure for assessing the quality of an educational programme (licensed by the state to carry out educational activities under the programme) without graduates for compliance with the declared status and standards of the accreditation body. The status of primary accreditation of an educational programme is granted when the proposed or being developed programme demonstrates its potential to meet the IQAA accreditation standards developed on the basis of ESG.

Primary programme accreditation provides for all procedures of external audit in accordance with the standards and criteria of programme accreditation of educational organisation's/educational programme's activity, except for interviews with graduates and employers, and implementation of the recommendations of the expert group after obtaining the status of primary accreditation.

Table 1. Composition of the expert group for external audit within the framework of programme accreditation:

№	Full name	Position, academic degree, academic title	Group member status, contact details
6B07109 Robotics systems			
1	Sabyrzhan Kubeisinovich Atanov	Doctor of Technical Sciences, Professor, Department of Computer and Programme Engineering, L.N. Gumilev Eurasian National University of Eurasia	Team leader, expert
2	Yuri Sergeevich Andreev	Deputy Dean of the Faculty of Control Systems and Robotics, PhD (Technical Sciences), Associate Professor Federal State Autonomous Educational Institution of Higher Education "National Research University IPMO (Institute of Precision Mechanics and Optics)", St. Petersburg	International expert Online
3	Ilya Sergeevich Popov	Master's student of the 1st year of the educational programme "Informatics", Pavlodar Pedagogical University named after A. Margulan	Student representative
7M01101 Pedagogy and Psychology			
	Dybys Amankeldievna Zhanserikova	Candidate of Psychological Sciences, Associate Professor of the Department of Psychology, Karaganda University named after E.A. Buketov	National Expert
7	Murat Bakenovich Asainov	Director of secondary general education school No. 7, Pavlodar	Employers' representative
8	Gulnazira Talasovna Jalbyrova	Master's student of the 2nd year of the educational programme "Pedagogy and Psychology", Pavlodar Pedagogical University named after A. Margulan	Student representative

9	Elmira Kurmanbaevna Tusupbekova	Department of Accreditation of Higher Education Institutions and Research Institutions, Independent Quality Assurance Agency in Education (IQAA)	Coordinator Mobile tel.: 8701 729 29 43 E-mail: e.tusupbekova@iqaa.kz
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Table 2. External Audit Programme of the IQAA Expert Panel on Programmatic Accreditation during December 11-12, 2023

Time	Event	Participants	Location
10 December 2023			
Check-in	Hotel	Throughout the day	EEG members
Day 1: 11 December 2023			
09.30	Arrival at the University	H, EG, C	Educational Block Conference hall, room 113
09:30-10:15	Briefing, discussion of organisational issues	H, EG, C	Conference hall, room 113
10:15-11:00	Interview with the Founder and Rector of the University	H, EG, C, Vice-President, Rector	https://us06web.zoom.us/j/85824751507?pwd=ecEP1pIATGEXXS8JhrJTCizLlVLUAY.1
11:00-11:15	Exchange of views of the members of the external expert group	H, EG, C	Conference ID: 858 2475 1507 Access code: 933933
11:15-12:00	Interviews with Vice-Rectors of the University	H, EG, K, Vice-Rectors	Room 218 https://us06web.zoom.us/j/83363599063?pwd=2MHODvIekwCWn37bJb0HqjvIQz7G0o.1 Conference ID: 833 6359 9063 Access code: 410743
12:00-12:15	Exchange of views of the members of the external expert group	H, EG, C	
12:15-13:00	Interviews with heads of structural divisions	H, EG, C, HSS	Room 218 https://us06web.zoom.us/j/83363599063?pwd=2MHODvIekwCWn37bJb0HqjvIQz7G0o.1 Conference ID: 833 6359 9063 Access code: 410743
13:00-14:00	Lunch	H, EG, C	University canteen
14:00-15:30	Visual inspection of material-technical and laboratory facilities in the areas of accredited educational programmes	H, EG, HSS, Sector managers	Block-1, 45 Lomova str. Building-5, 102/4 M. Gorky str. https://us06web.zoom.us/j/86

			063172122?pwd=ewbOebNlEKiO0qQ92IfvJzh9Q4ltaD.1 Conference ID: 860 6317 2122 Access code: 268325
15:30-16:00	Interviews with heads of departments	H, EG, C Sector managers	Room 218 https://us06we.b.zoom.us/j/82454806000?pwd=H6Z2X64V2YCN2QRWRMQiBY5jJvnYlv.1 Conference ID: 824 5480 6000 Access code: 800674
16:00-16:15	Exchange of views of the members of the external expert group	H, EG, C	Conference hall, room 113 Link for the conference
16:15-16:45	Interviews with teaching staff in the areas of accredited educational programmes	H, EG, C, University faculty members	Room 218 https://us06we.b.zoom.us/j/87931725847?pwd=3X0S1miBx7PjkEWaqDQ5zRtpfLbsEs.1 Conference ID: 879 3172 5847 Access code: 218468
16:45-17:00	Exchange of views of the members of the external expert group	H, EG, C	Conference hall, room 113 Link for the conference
17:00-17:30	Interviews with learners	H, EG, C Learners	Room 218 https://us06we.b.zoom.us/j/87191585635?pwd=TeyGoz

			H8 fiYREuYzcc6 H ooRuOolxnM .1 Conference ID: 871 9158 5635
17:30-17:45	Exchange of views of the members of the external expert group	H, EG, C	Conference hall, room 113 Link for the conference
17:45-18:15	Interviews with alumni	H, EG, C Graduates	Room 218 https://us06we.b.zoom.us/j/89099412149?pwd=ta14QIRMwyYlJnEX6gb0vMNb4D5iQh.1 Conference ID:890 9941 2149 Access code:067762
18:15-18:30	Exchange of views of the members of the external expert group	H, EG, C	Conference hall, room 113 Link for the conference
18:30-19:00	Interviews with employers	H, EG, C Employers	Room 218 https://us06we.b.zoom.us/j/8987754252?pwd=Yr9R9FOyQZkNIGCoRXAtYXQQWl0sDL.1 Conference ID:869 8775 4252

			Accesscode: 261765
19:00-19:15	Exchange of views of the members of the external expert group	H, EG, C	Conference hall, room 113 Link for the conference
19.30	Dinner	H, EG, C	University canteen
Day 2: December 12, 2023.			
9:30	Arrival at the University	H, EG, C	Educational Block Conference hall, room 113
10:00-11:30	Selective visits to practice bases (Annex 1)	H, EG, Representatives of practice bases	https://us06web.zoom.us/j/81324185992?pwd=aBXiEJRbdE4uBmvJhoYc3mwXaTSsK6.1 Conference ID: 813 2418 5992 Access code: 400545
11:30-13:00	Visit to the Office of the Registrar, Office of Academic Affairs, Office of Educational and Social Services, Office of Pre-University Education and Recruitment, Division of Scientific and Organisational Work, Division of International Cooperation and Academic Mobility Selective attendance at training sessions (Appendix 2).	H, EG, C, HSS	Educational Block https://us06web.zoom.us/j/85832432443?pwd=qReusbcdwFFj6tSbyfR75PggZbJam.1 Conference ID: 858 3243 2443 Access code: 474810
13:00-14:00	Lunch	H, EG, C	University canteen
14:00-14:30	Invitation of Heads of Departments at the request of experts	H, EG, C	EEG room (room 113) https://us06web.zoom.us/j/89094184764?pwd=AUjqNTHozMveDoETxqcr9wCUOXxjcb.1
14:30-16:00	Preparation of external audit reports. Study of documentation on accredited educational programmes. Invitation of individual representatives of the university and structural units at the request of experts.	H, EG, HSS, Sector managers	
16:00-17:00	Exchange of opinions of the members of the external expert group. Summarising the preliminary results of	H, EG, C	https://us06web.zoom.us/j/89094184764?pwd=AUjqNTHozMveDoETxqcr9wCUOXxjcb.1 Conference ID: 890 9418

	the external audit.		4764 Accesscode: 818181
17:00-17:30	Meeting with management to present the preliminary results of the external audit	H, EG, C	
18.00	Dinner	H, EG, C	University canteen
On schedule	Departure of EEG members	H, EEG, C	

Note: H - Head of the EEG, EG - Expert Group, C - Group Coordinator, HSS - Heads of structural subdivisions

Annex 1

SELECTIVE VISITS TO PRACTICE CENTRES

Selective visit to practice bases of EP 6B07109 Robotics systems

No.	Bases of practice
1	Promanalit LLP, Pavlodar
2	TKR Group LLP, Pavlodar
3	OMIS INC LLP, Pavlodar

Annex 2

Participants of the interview for external audit within the framework of programme accreditation for programme accreditation of educational programme 6B07107 - Robotics systems

December 11-12, 2023.

Responsible for carrying out specialised accreditation

No.	Full name	Position, academic degree, title	Contact details (mobile phone, e-mail)
1	Marina Viktorovna Temerbayeva	Head of the Academic Affairs Department, Ph.D. in Technical Sciences, Professor	+77777869071 marvik75@yandex.ru

Management of the University

Founder

No.	Full name	Position, academic degree, title	Contact details (mobile phone, e-mail)
1	Chingiz Serikbayevich Makenov	Chairman of the Supervisory Board	+7054099799 chingiz_makenov@ineu.edu.kz
2	Tatiana Sergeevna Korotkova	Deputy Chairman of the Supervisory Board	+77019967445 ktctania@mail.ru

Rector

No.	Full name	Position, academic degree, title	Contact details (mobile phone, e-mail)
1	Gulvira Aidarkhanovna Musabekova	Candidate of Pedagogical Sciences, Professor	+77788213737 gulvira2030_73@mail.ru

University Vice-Rectors

No.	Full name	Position, academic degree, title	Contact details (mobile phone, e-mail)
1	Amangeldy Rakishevich Beisembaev	Vice-Chancellor for Marketing, D. in Philology, Professor	+77028883188 aman2908@mail.ru

Heads of structural subdivisions

No.	Full name	Position, academic degree, title	Contact details (mobile phone, e-mail)
1	Temerbayeva MarinaViktorovna	Head of Academic Affairs	+77777869071 marvik75@yandex.ru
2	Elena Frantsevna Krasnoperova	Dean of the Faculty of Economics and Engineering	+77772834263 kef.80@mail.ru
3	Ludmila Alexandrovna Shokleva	Head of the registrar's office	+77054439489 shoklevalyuda@gmail.com
4	Gulmira Tileukhanovna Tanirbergenova	Head of Business and Human Resources Management	+77789630768 nach_ok@ineu.kz
4	Amanzholova Azhar	Head of the Department for Educational Work and SocialIssues	+77711733743 a.kznavy@gmail.com
5	Ilya Igorevich Otstavnoi	Head of Technical and Software Division	+77776170550 ilya_otstavnoy@ineu.kz
6	Alexander Pavlovich Abramenko	Head of Scientific and Organisational WorkDepartment	+77051531025 unir@ineu.kz
7	Dinara Sovetovna Amirkhanova	Library Director	+77076078943 dir_biblio@ineu.kz
8	Aitkhalin Azamat	Head of Press Service of INEU	aza.petrov@mail.ru +77776599489
9	Zhangazina Zhanar Kuanyshevna	Head of International Cooperation and AcademicMobility Division	oms@ineu.kz +77071992609

Heads of departments

No.	Full name	Position, academic degree, title	Contact details (mobile phone, e-mail)
1	Kairbekova Bakzhanat Dyndarbekovna	Head of the Department of Social and Humanitarian Sciences	+77013930068 kairbekova.bagzhanat@mail.ru

2	Svetlana Petrovna Kharchenko	Head of the Department of Energy, Engineering and Information Technologies	+77016107439 svetamusika@mail.ru
3	Yevgeny Borisovich Nikitin	Head of the Department of Veterinary Medicine and Industrial Technologies	+77017453384 yevgeniynikitin1964@gmail.com
4	Saule Telutemirovna Iksatova	Head of the Department of Law	+77786807794 iksatova.s@mail.ru
5	Riza Amangeldinovna Zhasarova	Head of the Department of Business and Management	+77765502450 rzhasarova@mail.ru

Faculty members

No.	Full name	Academic degree, title, since what year he has been working at the university	Contact details (mobile phone, e-mail)
1	Asylkhanova Gulnar Zhanabekovna	Associate Professor of the Department of Social and Humanitarian Sciences, since 2005	+77054087223 student-pavlodar@mail.ru
2	Syzdykova Dametai Temirbolatovna	Candidate of Philosophy, Associate Professor of the Department of Social and Humanitarian Sciences, since 2005	+77767123838 dametai_sizdikova@mail.ru
3	Aina Serikovna Narynbayeva	Doctor of Economics, Professor of the Department of Social and Humanitarian Sciences, since 2010	+77017599342 narynbaeva@mail.ru
4	Bulekbayeva Slukhiya Eleuovna	Candidate of Medical Sciences, Associate Professor of the Department of Social and Humanitarian Sciences, since 2022	+77011420224
5	Valery Ivanovich Tsoi	Candidate of Technical Sciences, Professor of the Department of Social and Humanitarian Sciences, since 2020	+77014727197 ipkm@mail.ru
6	Irina Ivanovna Lyashenko	Master's degree, senior lecturer at the Department of Energy, Engineering and Information Technologies, since 2007	irinal72@yandex.ru +77024015748
7	Elena Vladimirovna Prokopets	Master's degree, Senior Lecturer at the Department of Energy, Engineering and Information Technologies, since 2017	podsolnuschek@mail.ru +77055236707
8	Lyazzat Baltabaevna Tyulugenova	Researcher of the project 609757-EPP-1-209-1-RS-EPPKA2-CBHE-JP "Dual	+77051400124 tlb_tore@list.ru

		Education for Industrial Automatisatation and Roboticsin Kazakhstan/DIARKAZ" within the framework of Erasmus+ programme from INEU according to the order No. 1542-02/251 from31.08.2021.	
9	Alexander Konstantinovich Svidersky	Project Manager of the project 609757-EPP-1-209-1-RS-EPPKA2-CBHE-JP "Dual Education for Industrial Automatisatation and Roboticsin Kazakhstan/DIARKAZ" within the Erasmus+ programme from INEU according to the order No. 1542-02/251 from 31.08.2021.	+77058668258 katsostud@mail.ru

Students

No.	Full name	Contact details (mobile phone)	Course, (GPA)
1	Asemgul Amanaevna Zharasova	+77058251524	Master's student, 1st year
2	Aynur Askarovna Kasymova	+77776376254	Master's student, 1st year
3	Asem Amangeldinovna Kerimbaeva	+77771807769	Master's student, 1st year
4	Ilya Denisovich Geints	+77772644475	1st year student

Meeting with graduates

No.	Full name	Place of work, position	Contact details (mobile phone, e-mail)
1	Kantarbayeva LyazzatSatybayevna	Nursery- kindergarten No. 115, Pavlodar, educator	+77056139975
2	Zhetpis Marzhangul	Kindergarten No.8 of Pavlodar city education department, Pavlodar region education department, head	+77051403594
3	Isabekova Ainur Erkenovna	Kindergarten No. 33, Pavlodar, head	+77718502536
4	Aynagul Sailaubaeвна Kakimova	Sychevskaya school, teacher of Kazakh language and literature	+77774108317
5	Aigul Amangeldyevna Kaliyeva	Aksu Secondary School No. 8, Deputy for Academic Work	+77071222936

Employer representatives

No.	Full name	Place of work, position	Contact details (mobile phone, e-mail)
1	Zinaida Dmitrievna Bagnenko	Samal Rehabilitation Centre, Pavlodar, Director.	+77056112954
2	AizhanKairgeldinovna Koysoymasova	Zhas Urpak Youth House, Pavlodar, Director	+77054428455
3	Alina Kuralai Zhumkenovna	Scientific and Practical Centre of Addictology and Mental Health, Pavlodar, expert	+77052025560
4	Natalia Fedorovna Fesenko	Scientific and Practical Centre of Addictology and Mental Health, Pavlodar, Director	+77013965313
5	Asemgul Kalelevna Sadvakasova	Republican Scientific and Practical Centre for Mental Health, Pavlodar Branch, Head of Scientific Department, practicing psychologist	+77073530718
6	Igor Vladimirovich Isupov	Promanalit LLP, Pavlodar, General Manager	+77051567268
7	Alexander Aleksandrovich Shankin	SOLID Group LLP, Pavlodar, General Manager	+77013299400
8	Olesya Anatolievna Golubeva	OMIS INC, Director, Pavlodar	+77012254475

As a result of the accreditation, the EEC noted the following:

1. It is recommended to continue to establish more substantive co-operation with employers on joint development of EP courses, expand the range of external EP experts.
2. It is necessary to further improve the mechanism of involvement of students and employers in the formation of EP, overcoming the formal approach.
3. It is recommended to develop an action plan for academic mobility. Also expand the geography of academic mobility, try to send students to top universities for internships. Involve students more actively in research activities.
4. It is recommended to add disciplines developing technical skills and competences to the CD. Increase the number of disciplines read in English.
5. It is necessary to intensify the publication activity, especially in terms of educational and teaching and methodological work on the profile of the programme. To attract more practitioners from the leading scientific centres of the region and the republic. To expand the practice of teachers' participation in professional development courses on the profile, competitions for grant funding through the Science Foundation, international grant programmes, academic exchange programmes, improving language skills. Activate wider involvement of foreign lecturers and experts in training. Activate the external and internal academic mobility of teaching

staff. It is recommended to increase the number of hours of guest lectures with the invitation of famous foreign scientists.

6. To staff the library with software and modelling environments for EP 6B07109 Robotics Systems.
7. In order to increase the number of students enrolled in the programme, it is recommended to intensify career guidance work through social networks, organisation of youth events, targeted work with schools in the region, and modernisation of PR campaigns.

As a result, the educational programme 6B07107 - Robotics Systems has been accredited for 5 years.



Figure 3: Certificate of accreditation of EP Robotics Systems, INEU