«АККРЕДИТТЕУ ЖӘНЕ РЕЙТИНГТІҢ ТӘУЕЛСІЗ АГЕНТТІГІ» КЕМ

НУ «НЕЗАВИСИМОЕ АГЕНТСТВО АККРЕДИТАЦИИ И РЕЙТИНГА»

INDEPENDENT AGENCY FOR ACCREDITATION AND RATING

REPORT

on the results of the work of the external expert commission on assessment on compliance with the requirements of the standards of international specialized accreditation of joint educational programs

6B07109 Medical engineering (Medical equipment) (Bachelors)
7M04102 Technological entrepreneurship (Masters)

D. SERIBAYEV EAST KAZAKHSTAN TECHNICAL UNIVERSITY

April 25-27, 2023

INDEPENDENT AGENCY FOR ACCREDITATION AND RATING
External Expert Commission

Addressed to
Accreditation
Council of the IAAR

«АККРЕДИТТЕУ ЖӘНЕ РЕЙТИНГТІҢ ТӘУЕЛСІЗ АГЕНТТІГІ» КЕМ
НУ «НЕЗАВИСИМОЕ АГЕНТСТВО АККРЕДИТАЦИИ И РЕЙТИНГА»
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2023

CONTENT

(I) ABBREVIATIONS

IR – Internal regulations
EEC – External expert commission
SOSE – State obligatory standard of education
DP EKTU – Documented procedure of JSC EKTU
ICT – Information and communication technologies
ITP – Individual training plan
MSE on REM – Municipal state enterprise on the right of economic management
QACCES – Quality Assurance Control Committee of the Ministry of Education and Science
MES RK – Ministry of Education and Science of the Republic of Kazakhstan
MEP - Modular educational program
SMU – JSC Semey Medical University
IAAR – Independent Agency for Accreditation and Rating
JSC EKTU - Nonprofit JSC "D. Serikbayev East Kazakhstan Technical University»
NCE – National Chamber of Entrepreneurs
NQF – National qualifications framework
SQF – Sectoral Qualifications Framework
R EKTU – East Kazakhstan Technical University regulation documentation
F – Faculty
WC – Work curriculum
IQAS – Internal quality assurance system
BD – Board of directors
JEP – Joint educational program
LLP – Limited Liability Partnership
PI – Private institution
SBE – School of Business and Entrepreneurship of D. Serikbayev East Kazakhstan Technical University
SIT – School of Information Technology

(II) INTRODUCTION

In accordance with Order No. 39-23-OD of April 24, 2023 of the Independent Agency for Accreditation and Rating, from April 25 to April 27, 2023, an external expert commission assessed the compliance of joint educational programs 6B07109 Medical Engineering (Medical Equipment), 7M04102 Technological Entrepreneurship East Kazakhstan Technical University named after D. Serikbayev to the standards of specialized IAAR accreditation of joint educational programs (dated January 5, 2021 No. 1-21/1-OD) in a hybrid format.

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

EEC Members:

1. **Chairman of the IAAR EEC** – Tamyarov Andrey Valerievich, Candidate of Technical Sciences, Associate Professor, Ulyanovsk State Technical University; *off-line participation*

2. **Foreign expert of the IAAR EEC** – Korolev Konstantin Yurievich, Candidate of Economics, Associate Professor, Russian Academy of National Economy and Public Administration under the President of the Russian Federation (RANEPA); *Online participation*

3. **Foreign expert of the IAAR EEC** – Voropaev Viktor Viktorovich, Ph.D., Yanka Kupala State University of Grodno ; *Online participation*

4. **Foreign expert of the IAAR EEC** – Mammadova Leyla Vasif kyzy, Azerbaijan University of Architecture and Civil Engineering (Baku, Republic of Azerbaijan); *Online participation*

5. **Expert of the IAAR EEC** – Aikenova Dina Maratovna, PhD, expert of the 2nd category (Astana, Republic of Kazakhstan) ; *Online participation*

6. **Expert of the IAAR EEC** – Abishev Medeu Yerzhanovich, Doctor of Physical and Mathematical Sciences, Professor, Al-Farabi Kazakh National University (Almaty, Republic of Kazakhstan) ; *off-line participation*

7. **Expert of the IAAR EEC** – Kushebina Gulnara Malikovna, Ph.D., Esil University (Astana, Republic of Kazakhstan); *off-line participation*

8. **Expert of the IAAR EEC** – Arzaeva Maya Zhetkergenovna, PhD in Economics, Associate Professor, Kazakh National Agrarian Research University (Almaty, Republic of Kazakhstan); *Online participation*

9. **Expert of the IAAR EEC** – Ualkhanov Baizhan Nurbaevich, Ph.D., Professor, Innovative Eurasian University (Pavlodar, Republic of Kazakhstan); *off-line participation*

10. **Expert of the IAAR EEC** – Mursalimova Elmira Askarovna, Ph.D., Al-Farabi Kazakh National University (Almaty, Republic of Kazakhstan); *Online participation*

11. **Expert of the IAAR EEC** – Dzhetpisbayeva Ainur Zhenisbekkyzy, PhD, Kazakh National Research Technical University. KI Satpaev (Almaty, Republic of Kazakhstan) ; *Online participation*

12. **Expert of the IAAR EEC** – Turtkarayeva Gulnara Bayanovna, Ph.D., Associate Professor, Sh. Ualikhanov Kokshetau University (Kokshetau, Republic of Kazakhstan) ; *Off - line participation*

13. **Expert of the IAAR EEC** – Korobkov Maxim Sergeevich, PhD, Gumarbek Daukeev Almaty University of Energy and Communications (Almaty, Republic of Kazakhstan) ; *off-line participation*

14. **Employer-expert of the IAAR EEC** – Pilipenko Yury Alexandrovich, Chairman of the International Association of Producers of Goods and Services "Expobest" (Almaty, Republic of Kazakhstan); *Online participation*

15. **Employer-expert of the IAAR EEC** – Pitrakov Vladimir Yuryevich, director Pavlodar regional branch of JSC "UAPF" (Pavlodar, Republic of Kazakhstan); *Online participation*

16. **Student -expert of the IAAR EEC** – Jabiyeva Maya Rovshan kyzy, 4th year student of the educational program 050813 Social work of the Baku State University (Baku, Republic of Azerbaijan); *Online participation*

17. **Student-expert of the IAAR EEC** – Abilova Indira Tolegenkyzy, 1st year student of the educational program 7M01511 Informatics of the Eurasian National University named after LN Gumilev (Astana, Republic of Kazakhstan); *Online participation*

18. **Student-expert of the IAAR EEC** – Nauryzbayev Sultan, 3rd year student of the educational program 6B04109 State financial management of the Kazakh National University named after al-Farabi, member of the Alliance of Students of Kazakhstan ASK (Almaty, Republic of Kazakhstan); *Online participation*

19. **Student-expert of the IAAR EEC** – Makazhanov Timur Bolatovich, 1st year student of the educational program 7M07303 Cadastre of the Kazakh Agrotechnical University named after S. Seifullin (Astana, Republic of Kazakhstan); *Online participation*

20. **Student-expert of the IAAR EEC** – Islyamgali Nursultan Arturuly, 1st year student of the educational program 6B05101 Biology and Agriculture, Atyrau University named after Kh. Dosmukhamedov (Atyrau, Republic of Kazakhstan) ; *On - line participation*

21. **Student-expert of the IAAR EEC** – Mustafina Mergul Oralbekovna, doctoral student of the first year of study of the educational program 8D05401 of the East Kazakhstan University named after S. Amanzholov (Ust-Kamenogorsk, Republic of Kazakhstan); *off-line participation*

22. **Coordinator of the EEC** – Kydyrmina Nurgul Alimovna, IAAR Project Manager (Astana, Republic of Kazakhstan) . *off-line participation*

(III) REPRESENTATION OF THE EDUCATIONAL ORGANIZATION

Institution “East-Kazakhstan Technical University named after. D. Serikbaev" was established in 1996 on the basis of the Ust-Kamenogorsk Construction and Road Institute.

East Kazakhstan Technical University. D. Serikbayeva carries out educational activities in accordance with the state license No. 12016669, issued by the QACCES MES RK on November 11, 2012.

The university implements 98 educational programs of bachelor's, master's and PhD programs, 15 innovative programs.

The university trains personnel in such fields of education as:

- engineering, manufacturing and construction industries,
- business, management and law,
- information and communication technologies,
- agriculture and bioresources,
- services .

The basic areas of training:

- Geology and mining engineering,
- metallurgy and enrichment,
- Ecology and life safety,
- mechanics and metal working,
- architecture and construction,
- information and communication technologies,
- Energetics.

The contingent of students is about 5000 people, the share of master's and doctoral students is 8.8%. Employment of graduates is 96%.

The university has 2 faculties, 7 schools, Foundation faculty, military department, Smart Engineering competence center, 34 laboratories, scientific library, museum "Altyn Altai", 5 branches in production.

According to the results of the National Rating of leading technical universities of Kazakhstan - 2022 D. Serikbayev E KTU took the 2nd place among 11 technical universities of Kazakhstan.

In the rating "Webometrics Ranking of World Universities" the university occupies 4622 position among 32064 universities of the world (among 129 universities of Kazakhstan it takes the 7th place).

In QS Asia University Rankings 2023 D. Serikbayev E KTU takes 301-350 position throughout Asia, 12 - among 32 Kazakhstani universities.

The University's quality management system is certified for compliance with international standards ISO 9001:2015, ESG-2015.

Policy, rules for decision-making, which are guided by D. Serikbayev EK TU in its activities are defined in the Program of strategic development of JSC "D. Serikbayev EK TU" for 2023-2025" (approved by the decision of the BOD from 01/26/2023, Minutes No. 1) (approved by the decision of the BD of 01/26/2023, Minutes No. 1).

The EKTU top management has defined three priority directions of the university's development:

1. Academic Excellence
2. Scientific and technological breakthrough
3. The university is an area of wellbeing

The University implements the implementation of joint education on 11 EPs and provides external and internal academic mobility of students and teaching staff.

Science and Innovation Infrastructure brings together the Veritas Center of Excellence and industry-specific competence and technology transfer centers .

Joint educational programs 6B07109 Medical Engineering (Medical Equipment),

7M04102 Technological Entrepreneurship, developed in accordance with regulatory requirements and included in the Register of educational programs of the National Center for Higher Education Development of MES RK.:

– 6B07109 Medical engineering (Medical equipment) - registration date 07/23/2019, No. 6B07100108, updated 08/18/2022, innovative EP http://esuvo.platonus.kz/#/register/education_program/application/42244)

– 7M04102 Technological entrepreneurship - registration date 07/12/2022, No. 7M04100910, new EP, http://esuvo.platonus.kz/#/register/education_program/application/40959

The contingent of students of accredited EPs:

- JEP 6B07109 Medical engineering (Medical equipment) - 26 people, including 22 trained under the state order ,

- JEP 7M04102 Technological Entrepreneurship - 3 undergraduates, including 1 studying under the state order.

The total number of teaching staff who train students in JEP 6B07109 Medical Engineering (Medical Equipment) for the 2022-2023 academic year is 32 people, including: with academic degrees and titles – 10 people.

The total number of teaching staff who train students in JEP 7M04102 Technological Entrepreneurship for the 2022-2023 academic year is 13 people, including 10 people with academic degrees and titles.

(IV) DESCRIPTION OF THE PREVIOUS ACCREDITATION

Educational programs 6B07109 Medical engineering (Medical equipment), 7M04102 Technological Entrepreneurship are accredited by the IAAR for the first time.

(V) EEC VISIT DESCRIPTION

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

In order to coordinate the work of the EEC 21 . 04.2023 _ An on-line introductory meeting was held, during which powers were distributed among the members of the commission, the schedule of the visit was specified, an agreement was reached on the choice of examination methods.

To obtain objective information about the quality of educational programs and the entire infrastructure of the university, to clarify the content of self-assessment reports, meetings were held with acting. rector, vice-rectors of the university in areas of activity, heads of structural divisions, heads of departments, teachers, students. A total of 72 representatives took part in the meetings (Table 1).

Table 1 - Information about employees and students who took part in the meetings with the EEC IAAR:

Participant category	Quantity
Rector	1
Vice-Rector's Corps	3
Vice-rectors of partner universities	3
Heads of structural divisions	16
Deans, deans of partner universities, deputy. deans	11
Heads of departments, heads of educational programs	15
teachers	17
Students, undergraduates, doctoral students	6
Graduates	-
Employers	-
Total	72

During the visual inspection , the EEC members got acquainted with the state of the material and technical base, visited the Center for Competence and Technology Transfer "Smart engineering", the Center for Information Policy and Media Communication (Media Center), the library, the Center for Excellence "VERITAS", the Altyn Altai Museum, the Center competencies and transfer of technologies in the field of automation and mechatronics, educational laboratories "Medical equipment"; "Electronics and Circuit Engineering", "Esports and Gamification of Education", "Modeling of Complex Physical Processes", classrooms for mathematics, undergraduates and doctoral students, the Center for Physics, as well as classrooms.

At the meetings of the EEC IAAR with the target groups of the university, the mechanisms for implementing the policy of the university were clarified and certain data presented in the self-assessment report of the university were specified.

EEC members visited the practice bases of accredited programs: CSE on REM "East Kazakhstan Regional Diversified Center of Oncology and Surgery", LLP "ShygysMedTrade".

Members of the EEC attended training sessions:

- practical lesson in the discipline "Project Management", the topic "Analysis of the investment project", 1st year, teacher Kaisanova N.B. (room G-1-223);

- lecture on the discipline "Introduction to engineering education" topic "Amplifiers of electrical signals", 1st year, teacher Porubov D.A. (room G-1-407).

In accordance with the accreditation procedure, a survey of 57 teachers, 177 students,

including junior and senior students, was conducted.

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

As part of the planned program, recommendations for improving the accredited educational programs of the East Kazakhstan Technical University named after D. Serikbayev , developed by the EEC based on the results of the examination, were presented at a meeting with the management 27. 04.2023.

(VI) COMPLIANCE WITH THE STANDARDS OF INTERNATIONAL ACCREDITATION OF THE JOINT EDUCATIONAL PROGRAM

6.1. Standard "Right to Participation (Eligibility)"

✓ *Educational organizations planning to implement a joint educational program must be recognized by the relevant authorities of the country in which they are located .*

✓ *Participation in the implementation of a joint educational program, awarding of a joint academic degree must comply with national regulations.*

✓ *The academic degree(s) awarded should be in line with the national qualification system of the countries in which the CBOs are located.*

✓ *The joint educational program shall be developed and subject to implementation with the involvement of all partner educational organizations.*

✓ *The conditions for the development, implementation of a joint educational program should be clearly stated in the agreement on cooperation between partner educational organizations.*

✓ *The collaborative document shall set forth the following:*

✓ *information on the academic degree (qualification, degrees) awarded upon mastering (completion) of the joint educational program;*

✓ *coordination and responsibility of the involved partner education organizations with regard to management and financial organization (including funding, cost and revenue sharing, etc.);*

✓ *rules of admission and selection of students;*

✓ *mobility of students and faculty;*

✓ *rules of examinations, methods of assessment of achieved results of students, recognition of ECTS credits and procedures for awarding joint academic degrees.*

Evidence

JEP 7M04102 Technological Entrepreneurship was developed jointly with the Karaganda University of Kazpotrebsoyuz, one of the leading economic universities in Kazakhstan.

The partner of the EKTU in JEP 6B07109 Medical Engineering (Medical Engineering) is the Semey Medical University, the largest university in the North-Eastern region of Kazakhstan and the main supplier of medical personnel for the Abay region, East Kazakhstan and Pavlodar regions.

The procedure for developing an educational program, the organization and procedure for conducting all related procedures, the official powers and responsibilities of participants in the educational process are regulated by the Regulation of NJSC "EKTU" 030-I-2022 Designing an educational program (dated 06.12.2022).

The content of the accredited JEPs can be found on the official website of NJSC "EKTU" (https://www.ektu.kz/educationalprograms.aspx).

Enrollment for training under the JEP is carried out in accordance with the admission rules in force in each of the partner universities: PR NJSC "EKTU" 051 Admission rules for students studying for educational programs of higher and postgraduate education (Minutes No. 6 of 26.09.2022, https: / /www.ektu.kz/files/corporategovernance/doc/pravila-priema-2021-rus.pdf)

A student of JEP 6B07109 Medical Engineering (Medical Equipment) masters at least 240 credits, of which: 20 credits are mastered at NJSC "MUS"; development of 223 loans is carried out in NJSC EKTU. The list of disciplines and the number of credits under JEP 6B07109 Medical Engineering (Medical Engineering) studied on the basis of the partner university are determined by the Supplementary Agreement to the Agreement on JEP 6B07109 Medical Engineering (Medical Engineering) dated July 19, 2022.

The passage of all types of practices (educational, industrial, pre-diploma) by students can be carried out at the NJSC "EKTU" and in NJSC "MUS".

According to JEP 7M04102 Technological Entrepreneurship, training at a partner university according to the MEP is provided for one academic period (semester 3).

The procedure for organizing the mobility of students participating in the joint program, teachers and administrative staff of partner universities is determined by a separate agreement

(including issues of secondment and admission, accommodation and medical insurance).

Determination of the learning trajectory, including the procedure for mastering disciplines, passing pedagogical and research practices, procedures for intermediate and final certification, is carried out by the Partner Universities independently upon mutual agreement and is reflected in the content of the JEP.

The final attestation is organized through a joint meeting of the Attestation Commissions of the Partner Universities within the time frame stipulated by the academic calendar and working curricula of the JEP.

Analytics

The EEC notes the compliance of the accredited JEPs with the regulatory requirements, which is confirmed by the presence of JEPs 6B07109 Medical Engineering (Medical Equipment) and 7M04102 Technological Entrepreneurship in the Register of Educational Programs of the National Center for the Development of Higher Education of the Ministry of Education and Science of the Republic of Kazakhstan.

Upon completion of training and fulfillment of all requirements for each of the programs, the student is issued:

1) a diploma of its own sample with applications in three languages of the Partner University, in which the student is accepted and enrolled in the main program of study,

2) a transcript and a certificate of its own sample of the Partner University, in which the development of the disciplines of included education was carried out.

The basis for the development and implementation of JEPs were:

- Agreement of NJSC "EKTU " and NJSC "Semey Medical University" on JEP 6B07109 Medical engineering (Medical equipment) dated July 19, 2022;
- Additional agreement to the Agreement on JEP of NJSC "EKTU" and NJSC "Semey Medical University" dated July 19, 2022;
- Agreement on cooperation between NJSC EKTU and Karaganda University of Kazpotrebsoyuz within the framework of the Erasmus + program (No. 2019-2151 / 001-001);
- Memorandum of cooperation and interaction between NJSC "EKTU" and PI "Karaganda University of Kazpotrebsoyuz" dated 04.04.2023.

An analysis of the agreements and the memorandum of cooperation (including additional agreements) showed that these documents need to be improved in terms of a clear distribution of responsibilities between partners in terms of management, rules for conducting exams and the procedure for awarding joint academic degrees.

The memorandum of cooperation and interaction between NJSC EKTU and PI "Karaganda University of Kazpotrebsoyuz" dated 04.04.2023 is of a general nature and does not regulate the conditions for the development and implementation of a joint educational program.

Target indicators and main activities for the implementation of accredited JEPs are regulated within the Development Strategy JEP 6B07109 Medical Engineering (Medical Equipment) for 2023-2025 (approved by the meeting of the Board of SIT dated February 28, 2023, protocol No. 6), Development Strategy JEP 7M04102 Technological Entrepreneurship for 2023-2025 (approved by the meeting of the Board of Directors of the SBE on January 26, 2023, protocol No. 5). However, the presented strategic documents include directions and indicators set only for the participants of the educational process by the EKTU, they do not take into account the potential opportunities and do not define the strategic tasks of partner universities.

Strengths of the EP "6B07109 Medical engineering (Medical equipment)", "7M04102 Technological entrepreneurship":

- according to this Standard, the EP does not have strengths.

Recommendations for the EP "6B07109 Medical engineering (Medical equipment)", "7M04102 Technological entrepreneurship":

- by the end of the 2022-2023 academic year, it is necessary to complete the harmonization of agreements (contracts) on the implementation of the JEP in terms of the mutual rights and obligations of partners in matters of admission, selection of students, student mobility and teaching staff, EP management processes;

- develop and approve, together with partner universities, unified JEP development strategies by December 2023.

Conclusions of the EEC according to the criteria:

According to the standard "Right to participate. Acceptability" of joint educational programs 6B07109 Medical engineering (Medical equipment), 7M04102 Technological entrepreneurship disclosed 10 criteria, of which 10 have a satisfactory position.

6.2. Standard "Learning Outcomes"

- ✓ *The joint educational program should be designed in accordance with the stated objectives, including the intended learning outcomes.*
- ✓ *Qualifications resulting from the development of a joint educational program should be clearly defined, explained and correspond to a certain level of the national framework for qualifications in higher education and, therefore, the framework of qualifications in the European Higher Education Area (EQ-ENEA) .*
- ✓ *The disciplines of the joint educational program should ensure the achievement of the planned learning outcomes, including the knowledge, skills and competencies of the relevant field (areas) of education.*
- ✓ *A joint educational program should ensure the achievement of the planned learning outcomes by each student.*
- ✓ *The joint educational program, if relevant, must take into account the minimum agreed learning conditions set out in the European Union Directive 2005/36/EC or the relevant general framework of study established in accordance with the Directive.*

Evidence

The accredited JEPs are developed in accordance with the established objectives.

The purpose of JEP 6B07109 Medical Engineering (Medical Engineering) is to train highly qualified specialists who have competitive competencies adapted to modern requirements of the domestic and international labor market, capable of maintaining and operating medical equipment and technology in medical institutions of various profiles.

The purpose of JEP 7M04102 Technological Entrepreneurship is to prepare undergraduates with competencies in the field of technological entrepreneurship, able to generate new ideas, develop and implement commercial start-ups, attract investments, organize their own business and successfully work in innovative companies.

Upon completion of training under JEP 6B07109 Medical Engineering (Medical Engineering), the graduate is awarded the academic degree of Bachelor of Engineering and Technology, which corresponds to the 6th level of the National Framework for Higher Education of the Republic of Kazakhstan and, therefore, the framework of qualifications in the European Higher Education Area (FQ-EHEA).

A graduate of JEP 7M04102 Technological Entrepreneurship is awarded the academic degree of Master of Economic Sciences, which corresponds to level 7 of the NQF.

JEP disciplines ensure the achievement of the planned learning outcomes. In surveys on the harmonization of requirements for learning outcomes in disciplines, courses and practices implemented by partner universities, they are considered at meetings of the Quality Assurance Commission.

The learning outcomes reflect the requirements of the professional environment through the introduction of disciplines into the accredited JEPs on the recommendation of employers. The contribution of a particular discipline is determined by the JEP development working group. The working group includes teaching staff, representatives of the business community and students.

Analytics

The JEP guidelines have proven that the qualifications obtained at the end of the training are clearly defined and explained.

Graduate models according to JEP 6B07109 "Medical Engineering (Medical Equipment)", 7M04102 Technological Entrepreneurship are developed in accordance with the State Educational Standard, NRK, ORK.

At the same time, the EEC draws attention to the fact that the competency model is not presented on the official website in full (the purpose of the JEP, area, objects, types and functions of professional activity are not indicated) https://www.ektu.kz/educationalprograms/educationalprogramdetail.aspx_?lang=ru&Code=6514 .

Образовательная программа

Код – Специальность	7M04102 - ТЕХНОЛОГИЧЕСКОЕ ПРЕДПРИНИМАТЕЛЬСТВО	
Цель образовательной программы		
Модель выпускника		
Квалификационная характеристика выпускника	Область профессиональной деятельности:	
	Объект профессиональной деятельности:	
	Виды профессиональной деятельности:	
	Функции профессиональной деятельности:	
Карта компетенций специалиста	Формируемые ключевые компетенции	Результаты обучения
	1. Системное мышление в анализе и оценке современных научных достижений, генерирование новых идей при решении исследовательских и практических задач	Анализировать тенденции, тренды и закономерности развития современной науки с применением навыков научной и профессиональной коммуникации.
		Применять современные психолого-педагогические технологии в организации и осуществлении образовательного процесса в высшей школе.
	Базовые дисциплины	Профилирующие дисциплины	Дополнительные виды обучения
	Вузовский компонент:	Вузовский компонент:	Обязательный компонент:

The labor intensity of academic disciplines is enshrined in the MEP, RUP and IEP. For students under a joint program, the parties determine individual educational trajectories. At the same time, partner universities determine the periods and duration of the student's education for each of the parties, the languages of instruction for each period of study, the frequency, forms and place of intermediate and final certification, requirements for learning outcomes.

The development of JEPs takes into account the interests of interested parties. So, when forming JEP 6B07109 Medical engineering (Medical equipment), the recommendations of S.A. Popov were taken into account. - the chief physician of the CGP on the REM of the "City Hospital No. 4 of Ust-Kamenogorsk" and Bakhtiyarov R.U. - Director of JanaTel CA LLP (wholesale of medical devices and equipment). The curriculum includes a biomedical module, which includes the following disciplines: "Biophysics", "Biochemistry and Basics of Biology", "Human Physiology and Anatomy", "Medical Materials Science".

On the recommendation of Degterenko V.A., Director of NUR MEDICAL COMPANY LLP, JEP 7M04102 Technological Entrepreneurship included the discipline “Sustainable Entrepreneurship”.

JEP 6B07109 Medical Engineering (Medical Engineering) was developed and implemented with the involvement of both partner universities, with the ICC providing training in biomedical disciplines, which contributes to a deep understanding of the biochemical processes in sensors of medical devices and the technology of diagnostic procedures. The analysis of educational programs showed that it is possible to recommend giving more specialized disciplines from the ICC for engineers, with an emphasis on biophysics and biochemistry of diagnostic and therapeutic procedures.

Strengths of the EP "6B07109 Medical engineering (Medical equipment)", "7M04102 Technological entrepreneurship":

- according to this Standard, the EP does not have strengths.

Recommendations for the EP "6B07109 Medical engineering (Medical equipment)", "7M04102 Technological entrepreneurship":

- present the competence model of the graduate JEP 7M04102 Technological Entrepreneurship in full by July 2023;
- by the end of the 2022-2023 academic year, audit information on JEP 6B07109 Medical Engineering (Medical Engineering), 7M04102 Technological Entrepreneurship for completeness, relevance, establish the frequency of updating data on JEP.

Additional recommendations for the EP "6B07109 Medical engineering (Medical equipment)" ;

- according to JEP 6B07109 Medical Engineering (Medical Engineering) to ensure the achievement of the planned learning outcomes, including the knowledge, skills and competencies of the engineering profile, consider the advisability of adjusting the name and content of the disciplines of the biomedical module in order to focus them on obtaining knowledge in an interdisciplinary field, for example, the name of Biophysics for Engineering Biophysics or Biophysics with Engineering Applications by June 2024.

Conclusions of the EEC according to the criteria:

According to the standard "Learning Outcomes", 5 criteria are disclosed, of which 5 have a satisfactory position.

6.3. Standard "Development and approval of the program"

✓ *The structure and content of the joint educational program should be defined and developed on the basis of a student-centered approach to learning to ensure the achievement of the planned results.*

✓ *A joint educational program should be developed with the participation of students and other stakeholders.*

✓ *The European Credit Transfer System (ECTS) must be applied correctly and the allocation of credits must be clear.*

✓ *The joint educational program provides coverage of the required volume of workload. The undergraduate program is at least 180-240 ECTS credits; a joint master's program is at least 90-120 ECTS credits and should not be less than 60 ECTS credits at the second level of the cycle (credit ranges according to FQ-ENEA); for joint PhD programs, the range of credits is not indicated .*

✓ *The joint educational program has mechanisms to control the study load and the average time to complete the program.*

Evidence

JEP 6B07109 Medical engineering (Medical equipment) was developed on the basis of the State Educational Standards and taking into account the Professional Standards "Metrology" (approved by the order of the Deputy Chairman of the Board of NCE RK "Atameken" No. 283 dated 10/22/2018); " Manufacture of radio engineering, electronic products" (order No. 269 dated December 30, 2019); “Maintenance and repair of signaling, centralization and blocking equipment in the repair and technological area” (order No. 256 of December 20, 2019), etc.

JEP 7M04102 Technological entrepreneurship was developed in accordance with the requirements of the State Educational Standard, the NRK and the Professional Standard "Commercialization of an innovative project", approved by the Order of the Deputy Chairman of the Board of the National Chamber of Entrepreneurs of the Republic of Kazakhstan "Atameken" No. 259 dated December 24, 2019.

EEC IAAR, based on interviews with vice-rectors for areas of activity, deans, heads of departments, heads of educational programs, teachers and students, notes that the

implementation of student-centered learning is carried out by designing and organizing the educational process, where the main focus is on organizing various types of students' activities.

The total labor intensity of JEP 6B07109 Medical Engineering (Medical Technology) is 240 ECTS credits, JEP 7M04102 Technological Entrepreneurship is 120 ECTS credits.

The accredited JEPs for student workload are technically feasible.

According to JEP 6B07109 Medical engineering (Medical equipment), the development of 20 credits is carried out at NJSC "IUS" during the 2nd year of study (in the 4th trimester of 2023) as agreed by the partner universities. Professional practices of students (educational, industrial, pre-diploma) can be carried out in the NJSC "EKTU named after. D. Serikbaev" and in NJSC "MUS".

According to JEP 7M04102 Technological Entrepreneurship, training at the Karaganda University of Kazpotrebsoyuz is provided for in the third semester of the 2023-2024 academic year.

Questioning of students showed that 83.6% of students were completely satisfied with the overall quality of the training programs, 14.7% of students were partially satisfied, and 1.7% were partially dissatisfied.

Analytics

During the visit, the experts analyzed educational programs, educational and methodological support for their implementation. The documentation has been developed in accordance with regulatory requirements. The learning outcomes for each discipline and professional practices correspond to the learning outcomes for the JEP.

When forming the learning outcomes for JEP, the features of the labor market, the requirements of employers and the social demand of society are taken into account.

Kukhareva A.A. took part in the development of JEP 6B07109 Medical engineering (Medical equipment). - Director of the East Kazakhstan region of the multidisciplinary "Center for Oncology and Surgery", Terentiev D.A. - Director of MedTechService LLP. As part of the developers of the EP - a student of the group 19-MiK-1 Makanova A.K.

In the development of JEP 7M04102 Technological Entrepreneurship, Terentyev D.A. - Director of MedTechService LLP, Kalelov K.M. - Head of VoSca LLP.

It should be noted that Terentiev D.A. , Kalelov K.M. also listed as reviewers of the JEP through peer review. In the course of conversations with the management of the JEP, the criteria for selecting external experts, the requirements for the developers and experts of the JEP from the labor market were not announced.

Students participate in the formation of their own educational trajectories through individual curricula compiled on the basis of QED, posted on the University's Educational Portal.

The EEC confirms that the educational portal "Dales" operates at the university, which not only automates the educational process, but is also aimed at developing an internal quality assurance system as a whole. At the same time, during a meeting with students, the EEC notes the lack of awareness of JEP students and undergraduates regarding the mechanism for mastering JEP elements in partner universities.

The Commission notes that the processes of formation and implementation of the JEP are regulated by the internal regulations of each partner university, but joint procedures for managing the JEP were not presented.

Strengths of the EP "6B07109 Medical engineering (Medical equipment)", "7M04102 Technological entrepreneurship":

- according to this Standard, the EP does not have strengths.

Recommendations for the EP "6B07109 Medical engineering (Medical equipment)", "7M04102 Technological entrepreneurship":

- develop a local act that defines the algorithm for selecting persons involved in

conducting external examinations of the EP, as well as establishing requirements for external experts. (Deadline: 2023-2024 academic year);

- by the end of 2023, taking into account the internal regulatory documentation of each partner university, develop uniform, joint JEP management procedures;

- before the start of the 2023-2024 academic year, develop and implement a set of measures aimed at increasing the level of information and readiness of students and applicants to master the elements of JEP in partner universities;

- by the end of 2023, analyze the possibility of implementing double-degree education to harmonize the content of educational programs with educational programs of top domestic and foreign universities .

Conclusions of the EEC according to the criteria:

According to the standard "Development and approval of the program", 5 criteria are disclosed, of which 5 have a satisfactory position.

6.4. Standard "Admission, performance, recognition and certification of trainees"

- ✓ *Partner Educational Institutions must have predetermined , published and consistently applied admission rules and corresponding entry requirements.*
- ✓ *Selection procedures should correspond to the level of the joint educational program, regulate all periods of the "life cycle" of training, ie admission academic achievement, recognition and certification.*
- ✓ *Recognition of qualifications and periods of study (including recognition of prior learning) should be applied in accordance with the Lisbon Recognition Convention and supporting instruments.*

Evidence

Enrollment for training under the JEP is carried out in accordance with the admission rules in force in each of the partner universities (PR NJSC "EKTU" 051 Admission rules for students studying for educational programs of higher and postgraduate education (approved by the Chairman of the Board-Rector on August 17, 2022) and published on the official website.

Compliance of the actions of the program management with the Lisbon Recognition Convention is confirmed by the procedure for recognition and offset of ECTS credits.

The mechanism for recognition of learning outcomes within the framework of academic mobility is regulated by the documented procedure 023-I-2023 Academic mobility. The procedures for recognizing learning outcomes in the framework of additional and non-formal education are presented in Regulation P NJSC "EKTU" 129-I-2022 Regulation on the procedure for recognizing the results of non-formal education.

Assessment of the correspondence between the admission process and the subsequent progress of students, confirmation that the transparency of training requirements for all target groups is ensured, is implemented through the questionnaire "Feedback on the discipline ", "University through the eyes of graduates", etc. The results of the survey are discussed at the meeting of the Schools and appropriate decisions are made.

Analytics

In the course of the analysis of the submitted documents and the results of the EEC visit, the following issues regarding this standard can be noted, which are not fully reflected and were not confirmed during the EEC visit.

Several editions of the Admission Rules were submitted to the EEC, and all of them were marked as valid:

- on the website: PR NJSC "EKTU" 051 Admission rules for students studying for educational programs of higher and postgraduate education (approved by the Chairman of the Board-Rector on August 17, 2022)

- in the annexes to the report: PR NJSC "EKTU" 051-I-2021 Rules for the admission of students to educational programs of higher and postgraduate education of NJSC "EKTU named

after D. Serikbaev" (approved by the decision of the Board of Directors, protocol No. 3 of 11.06.2021)

- in the self-assessment report: 051 Admission rules for students studying for educational programs of higher and postgraduate education (Minutes No. 6 dated September 26, 2022).

The possibilities of preparing students for professional certification are not fully demonstrated within the framework of the JEP.

Based on the results of the survey conducted within the framework of the EEC IAAR, it was determined that, in general, equal opportunities for mastering the EP and personal development are provided to all students. 76.8% of students rated that they fully agree, 19.8% - agree, 1.1% - partially agreed and only 2.3% did not agree that equal opportunities for all students are provided for mastering the EP and personal development.

Strengths of the EP "6B07109 Medical engineering (Medical equipment)", "7M04102 Technological entrepreneurship":

- according to this Standard, the EP does not have strengths.

Recommendations for the EP "6B07109 Medical engineering (Medical equipment)", "7M04102 Technological entrepreneurship":

- develop a plan for the implementation of the professional certification JEPs to ensure that students (all levels) receive additional qualifications by December 2023.
- by the end of the 2022-2023 academic year, conduct an audit of internal regulatory documentation for relevance and form the Register of current regulatory documents.

Conclusions of the EEC according to the criteria:

According to the standard, 3 criteria are disclosed, of which 3 have a satisfactory position.

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

- ✓ *A joint educational program should be developed in accordance with the planned learning outcomes.*
- ✓ *The applied approaches to learning and teaching should be adequate to achieve the intended learning outcomes.*
- ✓ *A joint educational program should take into account the diversity of students, respect their needs, including potentially different cultural characteristics of students*
- ✓ *The rules for conducting examinations and the assessment of the achieved learning outcomes must be consistent with the intended learning outcomes*
- ✓ *Examinations and assessment of the results achieved by students should be conducted by partner educational organizations in accordance with established rules*

Evidence

The university practices the process of forming an individual educational trajectory for students JEP 6B07109 Medical Engineering (Medical Equipment), 7M04102 Technological Entrepreneurship. The management of the university provides opportunities to meet student-centered learning.

The transparency of the knowledge assessment procedure is ensured by posting current grades, intermediate and final results in electronic journals on the Educational Portal, video recording of exams, collective decision-making on awarding qualifications. The results of a consistent study of the effectiveness of elective courses make it possible to judge a stable positive trend in the assimilation of the developed content of programs focused on the formation of students' professional competencies.

In order to implement student-centered learning and teaching, the undergraduate JEP 6B07109 "Medical Engineering (Medical Engineering)" and the Master's JEP 7M04102 "Technological Entrepreneurship" provide timely information to students about the criteria used

and procedures for evaluating learning outcomes. The assessment of learning outcomes is regulated by the VND DP NJSC "EKTU" 024 Intermediate, final control and assessment of knowledge of students (dated 12/19/2022), DP NJSC "EKTU" 025 Final certification of students (dated 03/10/2023).

The results of intermediate assessments and final assessments, the results of the survey are regularly discussed at meetings of the School of Information Technology and Intelligent Systems and the School of Business and Entrepreneurship.

In order to provide feedback to students in the building of the University there is a trust mail. Students can also directly contact the leadership of the university through the blog of the Rector of the University, to the vice-rector's corps, to the departments and schools / faculties of the University through the contact details posted on the official website of the university.

Analytics

The results of the survey show students' satisfaction with the objectivity of assessing knowledge, skills and other achievements. Thus, 62.7% of respondents indicated complete satisfaction, 24.3% were satisfied and 3.4% disagreed. In general, both students and teaching staff expressed positive opinions about the progress in the implementation of the JEP.

At the same time, during the EEC visit, the university did not sufficiently demonstrate the feedback system on the use of various teaching methods and evaluation of learning outcomes. Specific facts, examples of the use of teaching methods, including innovative and copyright ones, are not presented.

Strengths of the EP "6B07109 Medical engineering (Medical equipment)", "7M04102 Technological entrepreneurship":

- according to this Standard, the EP does not have strengths.

Recommendations for the EP "6B07109 Medical engineering (Medical equipment)", "7M04102 Technological entrepreneurship":

- by the beginning of the 2023-2024 academic year, to consider the possibility of including in the KPI of the teaching staff indicators for the development of their own teaching methods and to encourage the intensification of activities in this area.

- on an ongoing basis, starting from December 2023, develop, publish and implement their own teaching methods, taking into account existing interactive and innovative methods. Develop a roadmap for the implementation of this work .

Conclusions of the EEC according to the criteria:

According to the standard, 5 criteria are disclosed, of which 5 have a satisfactory position.

6.6. Standard "Learner support"

✓ *Partner educational organizations should ensure the functioning of appropriate student support services that contribute to the achievement of planned learning outcomes.*

✓ *Student support services should contribute to the achievement of planned learning outcomes.*

✓ *Student support services should be taken into account possible specific problems of students with regard to mobility.*

✓ *Support services should, when allocating, planning and providing educational resources, take into account the needs of different groups of learners (mobile learners, adults, working, distance learners, and learners with disabilities) and take into account the principles of a student-centered approach to learning and teaching.*

Evidence

In NJSC "EKTU" there are service services that work to meet the educational, personal and career needs of students: a hostel, canteens, a service center, a medical center, gyms, computer centers, IT centers, laboratories, libraries, etc.

The Registrar Office service tracks the history of students' educational achievements, organizes all types of knowledge control and calculates the student's academic rating. The information resources of the university are actively used in the work of the office - the educational portal Dales and S-Portal.

The University also has a Student Service Center that provides services to students on a one-stop basis. Students receive timely and high-quality services, information support, including on-line within the "Smart-University".

There is a Committee for Youth Affairs, which contributes to the formation of the personality of the student, the development of his internal potential, participation in the work of student self-government.

Deans, schools and heads of JEPs, teaching staff assist in the development of educational programs.

The Service of Inclusive Education of the EKTU works, it provides scientific, practical, methodological, advisory support and coordination of the University's activities to provide psychological and pedagogical support for inclusive education for people with disabilities.

To support students with special needs, the accessibility of the adjacent territory, entrance ways and ways of moving inside is ensured, special places in the library are equipped, sanitary and hygienic rooms are provided for students with special needs (handrails, handrails, a specialized plumbing device, etc.), technological e-learning tools for students with various types of disabilities, etc.

The EKTU has developed and is implementing the Regulations on measures of social support for students (dated June 22, 2022).

On the Educational Portal, by authorized entry in the "Student" tab, through the "Personal Account" and in the Dales The Methodist system (https://www.do.ektu.kz/PReports/Methodist.asp) you can get acquainted with all the information on the organization of the educational process in NJSC "EKTU".

Analytics

EEC confirms the existence of a student support system, which includes the availability of material and technical equipment, as well as the provision of advisory support.

At the same time, it should be noted that a student support system based on EKTU was demonstrated, while it should include activities to support students in partner organizations.

The EEC notes that the conditions for creating a barrier-free environment for persons with disabilities are differentiated by educational buildings.

In general, according to the results of the survey, students are completely satisfied with the existing educational resources of the university - 86.4%; classrooms, classrooms for large groups - 77.4%; availability of computer classes - 74%, 71.2% are completely satisfied with the quality of Internet resources; the availability of library resources - 91%, the provision of students with a hostel - 76.2%.

Strengths of the EP "6B07109 Medical engineering (Medical equipment)", "7M04102 Technological entrepreneurship":

- according to this Standard, the EP does not have strengths.

Recommendations for the EP "6B07109 Medical engineering (Medical equipment)", "7M04102 Technological entrepreneurship":

- consider the issue of social support (accommodation, meals, etc.) for persons mastering JEP in partner universities, and prepare a joint document with partner universities before the start of the 2023-2024 academic year;

- to develop a program for scaling the experience of introducing a barrier-free educational environment, formed in the main building of the EKTU, to the rest of the educational buildings until 2025.

- sign memorandums between partner universities on ensuring a barrier-free educational environment to ensure the full functioning of the JEP by June 2024.

Conclusions of the EEC according to the criteria:

According to the standard, 4 criteria are disclosed, of which 2 have a satisfactory position, 2 require improvement.

6.7. Standard "Resources"

✓ *The teaching staff must be sufficient and adequate (qualifications, professional and international experience) to implement the joint educational program.*

✓ *The conditions provided must be sufficient and adequate, taking into account the intended learning outcomes.*

✓ *Partner educational organizations are responsible for the quality of their employees and providing favorable conditions for their effective work. Therefore, educational organizations, recognizing the importance of teaching, should:*

✓ *develop clear, transparent and objective criteria for hiring employees, appointments, promotions, dismissals and comply with them in their activities;*

✓ *provide opportunities for career growth and professional development of teachers;*

✓ *encourage scientific activity to strengthen the link between education and research;*

✓ *encourage the use of innovative methods of learning, teaching and the use of advanced technologies.*

✓ *The OO should strive to ensure that the educational equipment and software used to ensure that students achieve the planned results of a joint educational program are similar in their respective industries.*

Evidence

Qualification requirements for teaching staff positions are established in P NJSC "EKTU" 080 Rules for the competitive filling of positions of teaching staff and scientists (dated June 11, 2021) and published at https://www.ektu.kz/files/corporategovernance/doc/Pr_NAO_EKTU_080-I2021.pdf .

IR was developed: P NJSC "EKTU" 082 Regulations on the employee incentive system (dated 10/15/2021); P NJSC "EKTU" 056 Regulations on the personnel reserve (dated February 10, 2021); P NJSC "EKTU" 083 Regulations on the Conciliation Commission (dated March 16, 2021) PR NJSC "EKTU" 084 Internal labor regulations (dated March 1, 2021); P NJSC "EKTU" 066 Regulations on the application of disciplinary measures and suspension from work (dated February 24, 2021)

The use of innovative technologies in the educational process of the university is based on a good material and technical base, the improvement of which is constantly being carried out in accordance with the requirements of the time. In the classroom, modern information technologies are widely used: computers, interactive whiteboards, the Internet, specialized software. Educational equipment and software products are in line with those in their respective industries.

There is a structural unit "Department for the selection and development of personnel". Developed and implemented by NJSC "EKTU" 081 Instructions for HR records management (dated March 10, 2021); P NJSC "EKTU" 079 Regulations on the selection and adaptation of personnel (dated March 1, 2021), which reflects the entire algorithm for the selection, selection and adaptation process of newly hired employees.

At the university, in order to develop and implement a targeted personnel policy focused on improving the quality of research, teaching and management staff through the implementation of professional growth programs, stimulating scientific efficiency, updating staff through the involvement of young researchers and scientists with experience in leading Kazakhstani and

foreign universities and research centers, the Capital of the Future project is being implemented (https://www.ektu.kz/projects/links/kapital-budushchego.aspx).

When conducting scientific research, integrating science and education, publishing the results of research work, teaching staff, researchers and students are guided by the GND: P NAO "EKTU" 037 Regulations on research and educational research work of students and young scientists (dated November 30, 2022 d.), P NJSC "EKTU" 072 Regulations on the implementation of research results in the educational process (dated March 16, 2021); P NJSC "EKTU" 073 Regulations on the implementation of extra-budgetary research work (contract research) dated March 12, 2021; P NJSC "EKTU" 076 Regulations on the implementation of budgetary research work (03/16/2021) P NJSC "EKTU" 089 Regulations on reviewing scientific articles in the scientific journal "Bulletin of EKTU named after D. Serikbaev" (dated 22.01.2021). P NJSC "EKTU" 082 Regulations on the system of rewarding employees.

The specificity of accredited educational programs involves the use of ICT by all teachers in the educational process. Teaching staff JEP undergraduate 6B07109 Medical engineering (Medical technology) and JEP magistracy 7M04102 Technological entrepreneurship use innovative educational technologies and modern teaching methods: audiovisual tools such as slides in Power Point, Prezi, video, etc.

At the end of the academic year, an analysis is made of the available undergraduate JEP 6B07109 Medical engineering (Medical equipment) and JEP Master Degree 7M04102 Technological Entrepreneurship resources (classrooms, laboratories, computers, necessary equipment, educational materials) and based on the analysis, a plan is drawn up for publishing educational and methodological literature , applications for state purchase, it is planned to recruit students for the first year.

Analytics

The teaching staff of the reviewed JEPs is sufficient and adequate for their implementation, as well as the conditions provided ensure the achievement of learning outcomes. Partner educational organizations are responsible for the quality of their employees and provide favorable conditions for their effective work.

Objective criteria for recruitment, appointment, promotion, dismissal are developed, opportunities for career growth and professional development of teachers are provided, scientific activities are provided to strengthen the link between education and research and the application of innovative teaching methods, teaching and the use of advanced technologies. Educational equipment and software used to ensure that students achieve the planned results of a joint educational program are similar in the respective industries.

Based on the results of self-assessment and during the visit, the EEC notes the lack of activity of teaching staff of accredited JEPs in academic mobility programs.

In the process of interviewing the EEC with the teaching staff, the main reason for the low rates of academic mobility was identified - the lack of funding. At the same time, the EEC commission notes the good potential for the participation of teaching staff of accredited JEPs, as teachers of accredited JEPs took part in the EU Erasmus + program, within which they received training in the field of taught disciplines. Therefore, there is a need to develop a roadmap for the implementation of academic mobility programs for teaching staff.

Also, for the full implementation of the goals of the educational program, it is necessary to have certified specialists, at least in the most common medical equipment in the region, so it is advisable to attract such specialists to work part-time or send full-time teachers to certification courses.

Regarding the availability of educational medical equipment, it is desirable to have several training stands for complex equipment. Understanding the high cost of such equipment, however, it is necessary at least to develop an action plan for equipping laboratories with the necessary stands for complex medical installations and devices .

Strengths of the EP "6B07109 Medical engineering (Medical equipment)", "7M04102 Technological entrepreneurship":

- JEP leadership provides ample opportunities for career growth and professional development of teachers.

Recommendations for the EP "6B07109 Medical engineering (Medical equipment)", "7M04102 Technological entrepreneurship":

- to develop a roadmap for the implementation of academic mobility programs for teaching staff of JEPs by December 2023.

Additioanl recommendations for the EP "6B07109 Medical engineering (Medical equipment)":

- develop an action plan to attract specialists with professional certificates to the staff and send full-time teachers to the relevant organizations to obtain certificates (Deadline : June 2025) .

- develop an action plan to improve the equipment of laboratories to provide the necessary training stands for complex medical installations and devices (Deadline : June 2024) .

Conclusions of the EEC according to the criteria:

According to the standard, 7 criteria are disclosed, of which 1 has a strong, 6 have a satisfactory position.

6.8. Standard "Transparency and documentation"

✓ *Relevant information about the collaborative educational program should be documented and published, taking into account the specific needs of mobile learners.*

✓ *Information about the joint educational program should take into account admission requirements and procedures, catalog of courses/disciplines, examination and assessment procedures, etc.*

✓ *Educational partner organizations must have and implement mechanisms for collecting and analyzing information about their activities, about the activities of a partner within the framework of a joint educational program and use the information received in the work of the internal quality assurance system.*

✓ *The OO should ensure the involvement of students and employees in the collection, analysis of information and planning of subsequent procedures.*

✓ *When collecting information, the TOE should consider the following:*

- *key performance indicators;*
- *information about the contingent of students;*
- *academic performance, student achievement and dropout;*
- *satisfaction of students with the quality of implementation of the joint educational program;*
- *availability of educational resources and student support services;*
- *employment of graduates.*

Evidence

Information about undergraduate JEP 6B07109 Medical engineering (Medical equipment) (https://www.ektu.kz/educationalprograms/educationalprogramdetail.aspx?Code=6734) and Master's JEP 7M04102 Technological Entrepreneurship (https://www.ektu.kz/educationalprograms /educationalprogramdetail.aspx?Code=6776) is documented and published on the site, taking into account the specific needs of mobility learners.

Information about the undergraduate JEP 6B07109 Medical engineering (Medical equipment) and about the Master's JEP 7M04102 Technological Entrepreneurship takes into account the requirements and procedures for admission, the catalog of courses / disciplines, examination and assessment procedures, etc., according to the State Educational Standards and VND NJSC "EKTU".

Information management processes are carried out in accordance with the standard 7 R NJSC "EKTU" 127 of the Guidelines for the internal quality assurance system (dated November 23, 2022), as well as DP NJSC "EKTU" 020 Educational portal (dated December 6, 2022). The EKTU educational portal is a system for organizing and managing the educational process, which allows you to take advantage of modern innovative technologies in science and education, taking into account economic, legal and other features associated with studying at a technical university.

Questions and results of the survey "University through the eyes of graduates" are given at the link NQ8VuGagK5Y b -Kt5Jww/viewform), which can be used to draw a conclusion about the positive assessment and high student satisfaction with the JEP.

Educational programs of EKTU are accompanied by: information complex "Educational Portal of EKTU" (https://www.do.ektu.kz/); electronic document management system Directum (https://servicedesk.ektu.kz/); Dales The Methodist educational process management system (https://www.do.ektu.kz/PReports/Methodist.asp); official website (https://www.ektu.kz/); corporate mail system Outlook and @edu.ektu.kz; ServiceDeck ticket management system; electronic library (http://www.lib.ektu.kz/cgi/irbis64r_15/cgiirbis_64.exe?LNG=&C21COM=F&I21DBN=BOOCU&P2 1DBN=POLN) and provide users (employers, students, parents, etc.) with information of high quality and quantitative character about implemented OP.

An indicator of the effectiveness of the programs is the number of students in the undergraduate JEP 6B07109 Medical engineering (Medical equipment) and JEP 7M04102 Technological Entrepreneurship, which show a positive trend.

The average performance in undergraduate JEP 6B07109 Medical Engineering (Medical equipment) from 2019 to 2023 is - 78.5%, the average GPA score is - 2.49, the performance in Master's JEP 7M04102 Technological Entrepreneurship is 100% academic performance and the average score is 3.46. Conducting open classes, the implementation of mutual visits by teachers allows the university administration to systematically assess the quality of teaching disciplines. An analysis of open and working classes based on the results of mutual visits shows that the educational process in JEP 6B07109 undergraduate Medical engineering (Medical equipment) and JEP master 7M04102 Technological entrepreneurship is carried out on the basis of interactive forms of learning. A systematic assessment of the teacher's competence is carried out annually at the end of the academic year. Teaching staff conduct open classes according to the approved schedule, where all interested employees of the university can attend. Mutual visits to teaching staff classes and control visits by the heads of the EP are carried out in accordance with the approved schedule.

The availability of educational resources is provided by the main functional load of the Educational Portal, which is carried out via the Internet and a local network with authorized access.

Activities for the employment of graduates are carried out at the level of the university and faculties / schools. Coordination of employment activities is carried out by the Member of the Board - Vice-Rector for Academic Affairs. Career Center specialists, together with faculties / schools, assist in the employment of graduates, monitor employment and their further promotion in the labor market.

Analytics

Information about Undergraduate JEP 6B07109 Medical engineering (Medical equipment) and Master's JEP 7M04102 Technological Entrepreneurship satisfies the requirements of stakeholders, transparency of the admission procedure, availability of a catalog of courses / disciplines, notification of examination and assessment procedures, etc. is at the right level.

Information management processes are carried out in accordance with the standards of the republican level. The survey "University through the eyes of graduates" is carried out in

accordance with the regulations and provides all the necessary information to ensure transparency and the availability of documentary support for processes.

The number of students in the undergraduate JEP 6B07109 Medical engineering (Medical equipment) and JEP 7M04102 Technological Entrepreneurship show a positive trend, which shows the proper level of students' awareness of the peculiarities of the educational process at the university according to the considered JEP.

The results of the survey show students' satisfaction with the content of the JEP. In general, both students and teaching staff expressed positive opinions about the progress in the implementation of the JEP.

At the same time, the possibility of obtaining loans through online educational resources of the republican and international level has not been sufficiently shown.

Strengths of the EP "6B07109 Medical engineering (Medical equipment)", "7M04102 Technological entrepreneurship":

- according to this Standard, the EP does not have strengths.

Recommendations for the EP "6B07109 Medical engineering (Medical equipment)", "7M04102 Technological entrepreneurship":

- starting from the autumn semester of the 2023-2024 academic year, provide access to educational resources of online platforms and inform students about the possibilities of distance education.

Conclusions of the EEC according to the criteria:

According to the standard, 10 criteria are disclosed, of which 10 have a satisfactory position.

6.9. Standard quality assurance

✓ *Partner Educational Institutions should have a published quality assurance policy as part of their strategic management.*

✓ *A quality assurance policy is more effective if it reflects the relationship between learning, teaching, research and takes into account the national contexts in which partner education organizations operate.*

✓ *Internal stakeholders should develop and implement this policy through appropriate structures and processes with the involvement of external stakeholders.*

✓ *Partner educational institutions should apply joint internal quality assurance processes in accordance with part one of the ESG.*

The quality assurance policy supports:

✓ *organization of a quality assurance system that provides for joint internal quality assurance processes of educational partner organizations;*

✓ *departments, schools, faculties, institutes and other units, as well as the management of the educational organization, employees and students who perform quality assurance duties;*

✓ *academic honesty and freedom, as well as intolerance to manifestations of various kinds of academic dishonesty;*

✓ *processes that provide intolerance of any kind or discrimination of students and teachers;*

✓ *involvement of external stakeholders in quality assurance.*

Evidence

In accordance with ISO 9001:2015, ESG - 2015, the university has a published Quality and Quality Assurance Policy. https://www.ektu.kz/files/abouttheuniversity/Politics 2020ru.pdf, which reflects the relationship between research, teaching and learning. Also, all activities at the university are carried out in accordance with the Anti-Corruption Policy in accordance with ISO 37001:2016 https://www.do.ektu.kz/laws/smk_corruption/politika_anticor_ru.jpg. These Policies were reviewed at a meeting of the IMS Coordinating Council (Minutes No. 2 dated December

15, 2022) and approved by the rector.

The policy in the field of quality and quality assurance of NJSC "EKTU" is effective, as it reflects the relationship between learning, teaching, research and takes into account national contexts (https://www.ektu.kz/files/abouttheuniversity/Politics_2020ru.pdf).

The management of the university, teaching staff and employees take part in ensuring the quality of educational programs: the Department of Information Technology provides information and technical support, the Department for International Cooperation accompanies academic mobility and international relations, the Department of Research Activities supports scientific research, the Department for Social and Cultural Activities and youth policy provides social support to students, the Department of Development Strategy and Quality Assurance is engaged in obtaining feedback on learning processes through surveys. The Department for Academic Affairs ensures the implementation of the quality of educational programs. Faculties/schools and leaders of the EP organize all processes related to the implementation of the EP. The university also has structural units dealing with the formation of a contingent for EPs, employment, solving operational requests (Career Center, Office of the Registrar, CSP, etc.).

NJSC "EKTU" approved R NJSC "EKTU" 127 Guidelines for the internal quality assurance system (dated November 23, 2022), containing the standards of the internal quality assurance system in accordance with part one of the ESG and DP NJSC "EKTU" 008 Internal monitoring of the quality of educational process (dated December 28, 2022). The manual describes the system of internal quality assurance of education of the NJSC "EKTU", including the standards of the SVOK. DP 008 regulates the information support of university management, based on a systematic study of the state of the main and supporting processes, conditions and results of their implementation.

Quality assurance policy NJSC "EKTU" supports the organization of an internal quality assurance system based on the requirements of the European Higher Education Area (ESG).

Policy in the field of quality and quality assurance NJSC "EKTU" supports all structural divisions of the university that perform their duties to ensure the quality of education.

The policy in the field of quality and quality assurance of NJSC "EKTU" supports the development of a culture of quality, academic honesty, freedom, as well as actions against all types of academic dishonesty, the main mechanisms have been introduced, such as: proctoring, anti-plagiarism, etc.

The university management has allocated certain hours during which employees, students, parents and other interested persons can make an appointment with the rector (the schedule for the reception of citizens is posted on the website https://www.ektu.kz/call-center.aspx). The Schools also have a schedule for receiving visitors by the dean and head of the EP.

To evaluate the JEP, it is envisaged to conduct an external examination, the results of which are taken into account when discussing at meetings of schools for making changes and amendments.

Analytics

According to the results of the monitoring, indeed, from the leadership of the university to ordinary teaching staff and laboratory assistants, they take part in ensuring the quality of educational programs.

Information and technical support is provided, academic mobility is carried out and conditions are created for the development of international relations, scientific research is supported, social support is provided for students, the procedure for obtaining feedback on learning processes through surveys has been set to the proper level.

The quality of educational programs meets the necessary requirements. Faculties/schools and EP leaders qualitatively organize all processes related to the implementation of the EP.

The presence of a quality assurance policy, created on the basis of the requirements of the

European Higher Education Area (ESG), makes it possible to keep the level of quality management at the proper level.

Support for the development of a culture of quality, academic integrity, freedom, as well as action against all types of academic dishonesty, the existence of basic control mechanisms, such as proctoring, anti-plagiarism, etc. gives confidence in compliance with international quality standards.

The results of the monitoring showed the high quality of the university management, all managers have undergone specialized training and have MBA diplomas.

EEC experts were not presented with documents that provide joint internal quality assurance processes in accordance with part one of the ESG.

Strengths of the EP "6B07109 Medical engineering (Medical equipment)", "7M04102 Technological entrepreneurship":

- according to this Standard, the EP does not have strengths.

Recommendations for the EP "6B07109 Medical engineering (Medical equipment)", "7M04102 Technological entrepreneurship":

- Partner Educational Institutions should synchronize their joint internal quality assurance processes in accordance with part one of the ESG (Deadline: before the beginning of the 2023-2024 academic year) .

Conclusions of the EEC according to the criteria:

According to the standard, 9 criteria are disclosed, of which 8 have a satisfactory position, 1 requires improvement.

6.10. Standard "Ongoing monitoring and periodic evaluation of the joint educational program"

- ✓ *Partner educational institutions should monitor and periodically evaluate the joint educational program in order to achieve its goal and confirm compliance with the needs of students and society.*
- ✓ *The results of these processes should lead the OO to continuous improvement of the joint educational program.*
- ✓ *All stakeholders should be informed of any planned or undertaken actions in relation to the joint educational program.*
- ✓ *A joint educational program should be regularly evaluated and reviewed with the involvement of students and other stakeholders .*

Evidence

Quality assurance is carried out through the participation of schools in internal audits of the IMS, as well as in various surveys of students, teaching staff, and employers. The results of the analysis of inspections and audits are presented in the form of acts, certificates, memos, reports and are considered at meetings of the collegiate bodies of the EKTU (Board of Directors, Academic Council, IMS Coordinating Council, Academic Council, etc.). The monitoring of the types of analyzes and questionnaires for the evaluation of the EP and the conduct of training sessions is carried out by the Department for Academic Affairs, the commissions for quality assurance of faculties / schools and the heads of the EP.

To fulfill the goals and objectives of the Strategic Development Program, the university develops cooperation with foreign researchers and specialists. To improve the quality of the EP, practical workers from production are involved in scientific and teaching activities, which have more opportunities to prepare students for the realities of future work in their specialty. Development of the undergraduate JEP 6B07109 Medical engineering (Medical equipment) and Master's JEP 7M04102 Technological Entrepreneurship is aimed at satisfying, first of all,

business communities and end users (students). The strategic goals of the plan are structured and correspond to the main provisions of the regulatory legal acts of the Republic of Kazakhstan.

Persons interested in the planned or undertaken actions regarding the JEP are informed by corporate e-mail. If necessary, official letters are sent. In addition, information is provided through the website, in the news of the EKTU, social networks and distribution of printed information. All information about the JEP is available on the official website https://www.ektu.kz/ in the "Education" tab - "Educational programs of higher and postgraduate education" (https://www.ektu.kz/educationalprograms.aspx). Also, interested persons can familiarize themselves with the Catalog of additional educational programs (Minor) https://www.ektu.kz/minors/minorscatalog.aspx .

In case of changes in the JEP: learning outcomes, and / or changes / additions of disciplines, changes in the volume of labor intensity of the discipline in credits while maintaining the existing learning outcomes, moving the discipline from one cycle or component to another, eliminating duplicate disciplines with a close description and learning outcomes, changing (clarification) of the description of the discipline while maintaining the existing learning outcomes, technical correction of the text, the JEP is being updated in the Register of JEP of the Ministry of Education and Science of the Republic of Kazakhstan and reapproved.

Analytics

Partner educational organizations monitor and periodically evaluate the joint educational program to achieve its goal and confirm compliance with the needs of students and society and ensure continuous improvement of joint educational programs.

All stakeholders are informed of any planned or undertaken actions in relation to the joint educational program.

The joint educational program is regularly evaluated and revised with the involvement of students and other stakeholders.

The fact that persons interested in the planned or undertaken actions regarding the JEP are informed in time by corporate e-mail makes it possible to reach all participants in the educational process and allows them to be aware of all the news regarding the JEP.

However, the limitation to only corporate mail, as well as the lack of a procedure for jointly ensuring continuous monitoring and quality assessment based on modern information technologies, introduces risks in maintaining the JEP level at the proper level .

Strengths of the EP "6B07109 Medical engineering (Medical equipment)", "7M04102 Technological entrepreneurship":

- according to this Standard, the EP does not have strengths.

Recommendations for the EP "6B07109 Medical engineering (Medical equipment)", "7M04102 Technological entrepreneurship":

- Develop and implement procedures to jointly ensure continuous monitoring and quality assessment based on modern information technologies (Dated : June 2024) .

Conclusions of the EEC according to the criteria:

According to the standard, 4 criteria are disclosed, of which 4 have a satisfactory position.

6.11. Standard "Periodic external quality assurance procedures"

✓ *Partner Educational Institutions must undergo external quality assurance procedures in accordance with the European Standards and Guidelines (ESG) on a regular basis.*

✓ *The educational organization should strive to ensure that the progress made since the last*

external quality assurance procedure is taken into account when preparing for the next procedure.

Evidence

The results of the external evaluation procedures of NJSC "EKTU" are presented on the website in the section "University" in the tabs "Accreditation" and "EKTU in ratings" (information on institutional and specialized accreditation https://www.ektu.kz/educationalactivities/accreditation.aspx; information on the positions of the university in the world and national rankings by year https://www.ektu.kz/abouttheuniversity/passport/achievement.aspx). There are also links to external resources: accreditation bodies and rating agencies. Information is provided by the Development Strategy and Quality Assurance Department.

The accredited undergraduate JEP 6B07109 Medical engineering (Medical equipment) and the Master's JEP 7M04102 Technology Entrepreneurship are undergoing external quality assurance for the first time.

Analytics

Partner educational organizations undergo external quality assurance procedures in accordance with European Standards and Recommendations (ESG) on a regular basis.

The educational organization is committed to ensuring that the progress made since the last external quality assurance procedure is taken into account when preparing for the next procedure.

In order to strengthen the process of continuous and systematic maintenance of quality assurance at the proper level, it is desirable to encourage employees of the PA to participate as experts in the accreditation of educational programs in order to better understand the role of accreditation in ensuring the quality of JEPs and gain experience in controlling and monitoring the organization and quality management processes.

Strengths of the EP "6B07109 Medical engineering (Medical equipment)", "7M04102 Technological entrepreneurship":

- according to this Standard, the EP does not have strengths.

Recommendations for the EP "6B07109 Medical engineering (Medical equipment)", "7M04102 Technological entrepreneurship":

- Management is encouraged to encourage NGO staff to participate as experts in educational program accreditation procedures in order to better understand the role of accreditation in JEP quality assurance and gain experience (Deadline: June 2024) .

Conclusions of the EEC according to the criteria:

According to the standard, 2 criteria are disclosed, of which 2 have a satisfactory position.

(VII) REVIEW OF THE STRENGTHS OF EACH STANDARD

Strengths of the EP "6B07109 Medical engineering (Medical equipment)", "7M04102 Technological entrepreneurship":

Standard "Right to Participation (Eligibility)"
- according to this Standard, EPs do not have strengths.

Standard "Learning Outcomes"
- according to this Standard, EPs do not have strengths.

Standard "Development and approval of the program"
- according to this Standard, EPs do not have strengths.

Standard "Admission, performance, recognition and certification of trainees"
- according to this Standard, EPs do not have strengths.

Standard "Student-centered learning, teaching, and learning assessment"
- according to this Standard, EPs do not have strengths.

Standard "Learner support"
- according to this Standard, EPs do not have strengths.

Standard "Resources"
- opportunities for career growth and professional development of teachers.

Standard "Transparency and documentation"
- according to this Standard, EPs do not have strengths.

Standard quality assurance
- according to this Standard, EPs do not have strengths.

Standard "Ongoing monitoring and periodic evaluation of the joint educational program"
- according to this Standard, EPs do not have strengths.

Standard "Periodic external quality assurance procedures"
- according to this Standard, EPs do not have strengths.

(VIII) REVIEW OF QUALITY IMPROVEMENT RECOMMENTATIONS FOR EACH STANDARD

Recommendations for the EP "6B07109 Medical engineering (Medical equipment)", "7M04102 Technological entrepreneurship":

Standard "Right to Participation (Eligibility)"

- by the end of the 2022-2023 academic year, it is necessary to complete the harmonization of agreements (contracts) on the implementation of the JEP in terms of the mutual rights and obligations of partners in matters of admission, selection of students, student mobility and teaching staff, EP management processes;
- develop and approve, together with partner universities, unified JEP development strategies by December 2023.

Standard "Learning Outcomes"

- present the competence model of the graduate JEP 7M04102 Technological Entrepreneurship in full by July 2023;
- before the end of the 2022-2023 academic year, conduct an audit of information on JEP 6B07109 Medical engineering (Medical equipment), 7M04102 Technological Entrepreneurship for completeness, relevance, establish the frequency of updating data on JEP.

Additional recommendation for the EP "6B07109 Medical engineering (Medical equipment)":

- according to JEP 6B07109 Medical engineering (Medical equipment) to ensure the achievement of the planned learning outcomes, including the knowledge, skills and competencies of the engineering profile, consider the advisability of adjusting the name and content of the disciplines of the biomedical module in order to focus them on obtaining knowledge in an interdisciplinary field, for example , the title of Biophysics on Engineering Biophysics or Biophysics with Engineering Applications by June 2024 .

Standard "Development and approval of the program"

- develop a local act that defines the algorithm for selecting persons involved in conducting external reviews of the JEP, as well as establishing requirements for external experts. (Deadline: 2023-2024 academic year);
- by the end of 2023, taking into account the internal regulatory documentation of each partner university, develop uniform, joint JEP management procedures;
- before the start of the 2023-2024 academic year, develop and implement a set of measures aimed at increasing the level of information and readiness of students and applicants to master the elements of JEP in partner universities;
- by the end of 2023, analyze the possibility of implementing double-degree education to harmonize the content of educational programs with educational programs of top domestic and foreign universities .

Standard "Admission, performance, recognition and certification of trainees"

- develop a plan for the implementation of the JEP for professional certification to ensure that students (at all levels) receive additional qualifications by December 2023.
- by the end of the 2022-2023 academic year, conduct an audit of internal regulatory documentation for relevance and form a Register of current regulatory documents.

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

- by the beginning of the 2023-2024 academic year, to consider the possibility of including in the KPI of the teaching staff indicators for the development of their own teaching

methods and to encourage the intensification of activities in this area.

- on an ongoing basis, starting from December 2023, develop, publish and implement their own teaching methods, taking into account existing interactive and innovative methods. Develop a roadmap for the implementation of this work.

Standard "Learner support"

- consider the issue of social support (accommodation, meals, etc.) for persons mastering JEP in partner universities, and prepare a joint document with partner universities before the start of the 2023-2024 academic year;
- to develop a program for scaling the experience of introducing a barrier-free educational environment, formed in the main building of the EKTU, to the rest of the educational buildings until 2025.
- sign memorandums between partner universities on ensuring a barrier-free educational environment to ensure the full functioning of the JEP by June 2024.

Standard "Resources"

- to develop a roadmap for the implementation of academic mobility programs for teaching staff of JEPs by December 2023.

Additional recommendation for the EP "6B07109 Medical engineering (Medical equipment)":

- develop an action plan to attract specialists with professional certificates to the staff and send full-time teachers to the relevant organizations to obtain certificates (Deadline : June 2025) .
- develop an action plan to improve the equipment of laboratories to provide the necessary training stands for complex medical installations and devices (Deadline : June 2024) .

Standard "Transparency and documentation"

- starting from the autumn semester of the 2023-2024 academic year, provide access to educational resources of online platforms and inform students about the possibilities of distance education.

Standard " Quality assurance"

- Partner Educational Institutions should synchronize their joint internal quality assurance processes in accordance with part one of the ESG (Deadline: before the beginning of the 2023-2024 academic year) .

Standard "Ongoing monitoring and periodic evaluation of the joint educational program"

- Develop and implement procedures for the joint provision of continuous monitoring and quality assessment based on modern information technologies (Due date: June 2023) .

Standard "Periodic external quality assurance procedures"

- Management is encouraged to encourage NGO staff to participate as experts in educational program accreditation procedures in order to better understand the role of accreditation in JEP quality assurance and gain experience (Due date: June 2024) .

(IX) REVIEW OF RECOMENATIONS FOR THE DEVELOPMENT OF THE EDUCATIONAL ORGANIZATION

During the visit, the members of the external expert commission did not form recommendations for the development of the organization of education that go beyond the limits of compliance with the IAAR standards.

(X) RECOMMENDATIONS TO THE ACCREDITATION COUNCIL

The members of the EEC came to the unanimous opinion that JEP 6B07109 Medical engineering (Medical Equipment), 7M04102 Technological entrepreneurship are recommended for accreditation for a period of 5 years.

Annex 1 . EVALUATION TABLE "Conclusion by the external expert commission"

for JEPs 6B07109 Medical engineering (Medical equipment) and 7M04102 Technological entrepreneurship

№ p\n	Standards and criteria for international specialized (program) accreditation of a joint educational program of higher and (or) postgraduate education	Joint position educational programs			
		strong	Satisfactory	Assumes improvement	Unsatisfactory
	Standard "Right to participate. Acceptability"				
1.	Educational organizations planning to implement a joint educational program must be recognized by the relevant authorities of the country in which they are located		+		
2.	Participation in the implementation of a joint educational program, the assignment of a joint academic degree must comply with national regulations		+		
3.	The academic degree(s) awarded must(s) be in accordance with the national qualification system of the countries in which the PA is located		+		
4.	A joint educational program should be developed and subject to implementation with the involvement of all partner educational organizations		+		
5.	The conditions for the development, implementation of a joint educational program should be clearly set out in a cooperation agreement between educational organizations - partners		+		
	The cooperation document should set out the following:				
6.	information about the academic degree (qualification, degrees) awarded for the development (completion) of the joint educational program		+		
7.	coordination and responsibility of the involved educational institutions-partners in relation to management and financial organization (including financing, sharing of costs and revenues, etc.)		+		
8.	rules for admission and selection of students		+		
9.	mobility of students and teachers		+		
10.	rules for conducting examinations, methods for evaluating student performance, recognition of ECTS credits and procedures for conferring joint academic degrees		+		
	Total by standard		**10**		
	Standard "Learning Outcomes"				
1.	The joint educational program should be designed in accordance with the established objectives, including the intended learning outcomes.		+		

2.	A qualification resulting from a joint educational program must be clearly defined, explained and correspond to a certain level of the national framework for qualifications in higher education and, therefore, the framework for qualifications in the European Higher Education Area (FQ-EHEA)		+		
3.	The disciplines of the joint educational program should ensure the achievement of the planned learning outcomes, including the knowledge, skills and competencies of the relevant field (areas) of education		+		
4.	A joint educational program should ensure the achievement of the planned learning outcomes by each student		+		
5.	The joint educational program, if relevant, must take into account the minimum agreed learning conditions set out in the European Union Directive 2005/36/EC or the relevant common learning framework established in accordance with the Directive		+		
	Total by standard		**5**		
	Standard "Development and approval of the program"				
1.	The structure and content of the joint educational program should be defined and developed on the basis of a student-centered approach to learning to ensure the achievement of the planned results		+		
2.	A joint educational program should be developed with the participation of students and other stakeholders		+		
3.	The European Credit Transfer System (ECTS) must be applied correctly and credit allocation must be clear		+		
4.	The joint educational program provides coverage of the required volume of workload. The undergraduate program is at least 180-240 ECTS credits; a joint master's program is at least 90-120 ECTS credits and must not be less than 60 ECTS credits at the second level of the cycle (credit ranges according to FQ-EHEA); for joint PhD programs, the range of credits is not indicated		+		
5.	The joint educational program has mechanisms to control the study load and the average time to complete the program		+		
	Total by standard		**5**		
	Standard "Admission, performance, recognition and certification of students"				
1.	Partner educational institutions must have pre-defined, published and consistently applied admission rules and corresponding requirements for applicants		+		
2.	The selection procedures should be appropriate to the level of the joint educational program and the discipline governing all periods of the "life cycle" of training, i.e. admission, performance, recognition and certification		+		
3.	Recognition of qualifications and periods of study (including recognition of prior learning) should be applied in accordance with the Lisbon Recognition Convention and supporting instruments		+		
	Total by standard		**3**		
	Student-Centered Learning, Teaching and Assessment Standard				

1.	A joint educational program should be developed in accordance with the planned learning outcomes		+		
2.	Approaches to learning and teaching should be adequate to achieve the intended learning outcomes		+		
3.	A collaborative educational program should respect and take into account the diversity of students, their needs, including potentially different cultural characteristics of students		+		
4.	The rules for conducting examinations and the assessment of the achieved learning outcomes must be consistent with the intended learning outcomes		+		
5.	Examinations and assessment of the results achieved by students should be conducted by partner educational organizations in accordance with established rules		+		
	Total by standard		**5**		
	Student Support Standard				
1.	Partner universities should ensure the functioning of appropriate student support services that contribute to the achievement of planned learning outcomes		+		
2.	Student support services should contribute to the achievement of planned learning outcomes		+		
3.	Student support services should take into account possible specific problems of mobile learners			+	
4.	Support services should take into account the needs of different groups of learners (mobile learners, adults, working, remote learners, and learners with disabilities) and take into account the principles of a student-centered approach to learning and teaching when allocating, planning and providing educational resources.			+	
	Total by standard		**2**	**2**	
	Standard "Resources"				
1.	The teaching staff must be sufficient and adequate (qualifications, professional and international experience) to implement a joint educational program		+		
2.	The conditions provided must be sufficient and adequate, taking into account the intended learning outcomes.		+		
	Partner educational organizations are responsible for the quality of their employees and providing favorable conditions for their effective work. Therefore, educational organizations, recognizing the importance of teaching, should:				
3.	develop clear, transparent and objective criteria for hiring employees, appointments, promotions, dismissals and comply with them in their activities		+		
4.	provide opportunities for career growth and professional development of teachers	+			
5.	encourage scientific activity to strengthen the link between education and research		+		

6.	encourage the use of innovative methods of learning, teaching and the use of advanced technologies		+		
7.	The OO should strive to ensure that the educational equipment and software used to ensure that students achieve the planned results of the joint educational program are similar in their respective industries.		+		
	Total by standard	**1**	**6**		
Standard " Transparency and Documentation "					
1.	Relevant information about the collaborative educational program should be documented and published taking into account the specific needs of mobile learners.		+		
2.	Information about the joint educational program should take into account the requirements and procedures for admission, catalog of courses / disciplines, examination and assessment procedures, etc.		+		
3.	Partner educational organizations must have and implement mechanisms for collecting and analyzing information about their activities, about the activities of a partner within the framework of a joint educational program and use the information received in the work of the internal quality assurance system		+		
4.	OO should ensure the involvement of students and employees in the collection, analysis of information and planning of subsequent procedures		+		
	When collecting information, the TOE should consider the following:				
5.	key performance indicators		+		
6.	information about the contingent of students		+		
7.	academic achievement, student achievement and dropout		+		
8.	satisfaction of students with the quality of implementation of the joint educational program		+		
9.	availability of educational resources and student support services		+		
10.	employment of graduates		+		
	Total by standard		**10**		
Quality Assurance Standard					
1.	Partner Educational Institutions should have a published quality assurance policy as part of their strategic management.		+		
2.	Quality assurance policy is more effective if it reflects the relationship between learning, teaching, research and takes into account the national contexts in which partner education organizations operate.		+		
3.	Internal stakeholders should develop and implement this policy through appropriate structures and processes with the involvement of external stakeholders.		+		
4.	Partner educational institutions should apply joint internal quality assurance processes in accordance with part one of the ESG			+	
	Quality assurance policy supports				
5.	organization of a quality assurance system that provides for joint internal processes for quality assurance of educational partner organizations		+		

6.	departments, schools, faculties, institutes and other departments, as well as the management of the educational organization, employees and students who perform quality assurance duties		+		
7.	academic honesty and freedom, as well as intolerance to manifestations of various kinds of academic dishonesty		+		
8.	processes that provide intolerance of any kind or discrimination of students and teachers		+		
9.	participation of external stakeholders in quality assurance		+		
	Total by standard		**8**	**1**	
	Standard " Continuous monitoring and periodic evaluation of a joint educational program "				
1.	Partner educational institutions should monitor and periodically evaluate the joint educational program in order to achieve its goal and confirm compliance with the needs of students and society		+		
2.	The results of these processes should lead the OO to continuous improvement of the joint educational program		+		
3.	All stakeholders should be informed of any planned or undertaken actions in relation to the joint educational program		+		
4.	A joint educational program should be regularly evaluated and reviewed with the involvement of students and other stakeholders		+		
	Total by standard		**4**		
	Standard "Periodic External Quality Assurance Procedures"				
1.	Partner educational institutions must undergo external quality assurance procedures in accordance with the European Standards and Guidelines (ESG) on a regular basis		+		
2.	The educational organization should strive to ensure that the progress made since the last external quality assurance procedure is taken into account when preparing for the next procedure.		+		
	Total by standard		**2**		
	TOTAL	**1**	**60**	**3**	

Annex 2. PROGRAM FOR A VISIT TO AN EDUCATIONAL ORGANIZATION

AGREED
Chairman of the Board-Rector
_____S.Zh. Rakhmetullina
"11 April 2023 of the year

APPROVED
CEO NU "Independent Agencyaccreditation and rating"
_____A.B. Zhumagulova
"11 April 2023 of the year

PROGRAM OF THE VISIT OF THE EXTERNAL EXPERT COMMISSION OF THE INDEPENDENT AGENCY OF ACCREDITATION AND RATING (IAAR)NJSC "EAST KAZAKHSTAN TECHNICAL UNIVERSITY NAMED AFTER D. SERIKBAYEV" (SPECIALIZED AND PRIMARY SPECIALIZED ACCREDITATION)

Date hybrid visit: 25 − 27 April 2023 of the year

Program developed With taking into account time Ust-Kamenogorsk

Cluster	Educational program
Cluster 1. Specializedaccreditation	1) 6B04107 Social media marketing (joint educational program With Internationaluniversity information technologies) 2) 7M04107 Social media marketing (joint educational program With Internationaluniversity information technologies)
Cluster 2. Primaryspecialized accreditation	3) 6B07109 Medical engineering (Medical equipment) (joint educational programWith Medical university Families) 4) 7M04102 Technological Entrepreneurship (joint educational program withKaraganda University Kazpotrebsoyuz)
Cluster 3. Primary specialized accreditation	5) 6B04109 State financial management 6) 6B11202 innovative control security emergency natural And technogenic character
Cluster 4. Primary specialized accreditation	7) 6B07312 Land inventory And land management 8) 7M11301 Organization transportation, movements And exploitation transport
Cluster 5. Specialized accreditation	9) 6B07309 BIM - technologies in designing 10) 7M07312 Land inventory And land management
Cluster 6. Specialized accreditation	11) 8D05401 Mathematics 12) 8D07103 Thermal power engineering

Date and time *(time Ust-Kamenogorsk, GMT +6)*	**Job WEC With targeted groups**	**Position and surname, name, patronymicparticipants targeted groups**	**Place of the procedure /Form connections**
		21 April 2023	
15.00-16.00	**preliminary meeting WEC** *(discussion of key questions And programs visit)*	*External experts IAAR*	Join a Zoom meeting https :// us 02 web . zoom . us / j /4941240662 Identifier conferences: 494 124 0662 (only For VEC)
		Day 1: 25 April 2023	
10.00-10.30	**Distribution responsibility of expertsorganizational questions**	*External experts IAAR*	**Audience G-1-139 (** st. Serikbaev, 19) Join a Zoom meeting https :// us 02 web . zoom . us / j /4941240662 Identifier conferences: 494 124 0662 (only For VEK)
10.30-11.00	**Interview with the Chairmanboards - Rector** *(Interview will be arranged V hybrid format: on- / off - line)*	*Chairman of the Board - Rector NJSC D. Serikbayev EKTU* - Rakhmetullina Saule Zhadygerovna, Ph.D., associated Professor	**Audience G-1-101** (st. Serikbaev, 19) Join a Zoom meeting https :// us 02 web . zoom . us / j /4941240662 Identifier conferences: 494 124 0662
11.00-11.15	**Technical break**	*External experts IAAR*	**Audience G-1-101**
11.15-11.45	**Interview With Members Board-vice-rectors** *(Interview will be arranged V hybrid format: on- / off - line)*	1. *Member of the Board - Vice-Rector for Academic issues of NJSC D. Serikbayev EKTU* – Konurbaeva Zhadyra Tusupkanovna, Ph.D.,associated Professor 2. *Member boards - vice-rector By scientific research activities and digitalization NJSC D. Serikbayev EKTU* – Denissova Natalya Fedorovna, Associate Professor	**Audience G-1-101** Join a Zoom meeting https :// us 02 web . zoom . us / j /4941240662 Identifier conferences: 494 124 0662

		3. *Member boards - vice-rector planned- economic activities NJSC D. Serikbayev EKTU* - Beisembaeva Galia Mustapaevna, Ph.D.	
11.45-12.00	**Interviews with vice-rectorspartner universities** *(Interview will be arranged Vhybrid format: on- / off - line)*	1. *Vice-Rector By academic And educational activities of the International university information technologies* - Mustafina Akkyz Kurakovna, Ph.D., assistant professor 2. *Vice-Rector By academic issues And strategic development Karaganda university Kazpotrebsoyuz* - Nakipova Gulmira Ermekovna, Doctor of Economics, Professor 3. *Vice-Rector By academic And educational work NAO "Medical university Families"* - Smailova Zhanargul Kaiyrgalievna, Ph.D.	**Audience G-1-101** Join a Zoom meeting https :// us 02 web . zoom . us / j /4941240662 Identifier conferences: 494 124 0662
12.00-12.15	**Technical break**	*External experts IAAR*	**Audience G-1-101**

12.15-13.00	**Interviews with executives structural divisions** *(Interview will be arranged on hybrid format: on- / off - line)*	1. *Boss management By academic activities* - Mashekenova Asiya Khasenovna, Ph.D. 2. *Boss Division organizations And monitoring educational process* - DenisovaOksana Kasymovna, Ph.D., associated Professor 3. *And about. chief Registrar's Office* - Zhaizhatyrova Meruert Sabyrovna 4. *Director center career* - Trofimenko Svetlana Alexandrovna 5. *Supervisor Reception commissions* - Muslimova Gulnar Ersainovna, Ph.D. 6. *Director Department scientificresearch activities* - Uazirkhanova Gulzhaz Keneshankyzy, doctor Ph.D. , associated Professor 7. *Boss Center " POSTGRADUATE "* - Ivashchenko Elena Nikolaevna, Ph.D. 8. *Boss management By international cooperation* - Mukhamadiev Tahir Anuarbekuly	**Audience G-1-101** Zoom meetinghttps :// us 02 web . zoom . us / j /4941240662Identifier conferences: 494 124 0662

		9. *Boss management By international cooperation* - Mukhamadiev Tahir Anuarbekuly 10. *Boss department By selection And development personnel* - Daniyarova Karlygash Manashevna 11. *Boss management By social cultural activities And youth politics* - Zhanabaeva Gulnara Nurtasovna 12. *Main accountant* - Any Natalia Victorovna 13. *Boss management strategies developmentAnd ensure quality* - Anop Daria Kamilievna, Ph.D., associated Professor *14. Supervisor center informational politicians And media communications (Media center)* - Kasymova Karlygash Kanatovna 14. *Boss management By developmentinfrastructure* - Edigenov Lancer Bulatovich 15. *Supervisor libraries* - TleubekovaNazimgul Ernazarovna 16. *Boss management escorts Andinformation technologies* - Zuev Vitaly Nikolaevich	
13.00-13.15	**Job WEC**	*External Experts IAAR*	**Audience G-1-139** Join a Zoom meetinghttps :// us 02 web . zoom . us / j /4941240662 Identifier conferences: 494 124 0662 (only For VEK)
13.15-14.15	**Dinner**	*External experts IAAR*	**cafe "Pomegranate"**
14.15-14.30	**Technical break**	*External experts IAAR*	**Audience G-1-139** Join a Zoom meetinghttps :// us 02 web . zoom . us / j /4941240662 Identifier conferences: 494 124 0662 (only For VEC)

14.30-15.00	**Interviews with deans / institute directors (schools)** *(Interview will be arranged Vhybrid format: on- / off - line)*	1. *Deputy dean faculty basic engineering training* - Aringozhina Zarina Yerzhanovna 2. *Dean of the School of Information Technology and intellectual systems* - Kumargazhanova Saule Kumargazhanovna, Ph.D., AssociateProfessor 3. *Dean of the School of Business and entrepreneurship* - Zakimova Alfiya Manarbekovna, Ph.D. 4. *Dean Schools technologies atomic And traditional energy* - Akaev AibekMuratbekovich, PhD _ 5. *Dean Schools metallurgy And enrichment useful fossil* - Onalbaeva ZhanarSagidoldinovna, PhD _ 6. *And about. dean Schools architecture And construction* - Aitkazina Ayazhan Kalelkhanovna *7. Deputy dean Schools Sciences O Earth* - Asylkhanova Jeanne Alexandrovna 8. *Deputy Dean of the School mechanical engineering* - Baygereev Samat Rakimgalievich, doctor PhD	**Audience G-1-101** Join a Zoom meeting https :// us 02 web . zoom . us / j /4941240662 Identifier conferences: 494 124 0662
15.00-15.10	**Interviews with deans / institute directors (schools) partner university** *(Interview will be arranged Vhybrid format: on- / off - line)*	1. *Dean of the Faculty of Digital transformations of the International university information technologies* - Mukhamadiev Ardak Gabitovna 2. *Dean of the Faculty of Economics, Management and entrepreneurship of Karaganda university Kazpotrebsoyuz* - GimranovGalia Ilyasovna, Ph.D., Professor 3. *Dean of the School of Public healthcare, dentistry, pharmacy And nursing affairs NAO "Medical university Families"* - Kairkhanova Ynkar Akimzhanovna, PhD	**Audience G-1-101** Join a Zoom meeting https :// us 02 web . zoom . us / j /4941240662 Identifier conferences: 494 124 0662
15.10-15.25	**Technical break**	*External experts IAAR*	**Audience G-1-101**

15.25-16.05	**Interviews with managers departments, heads EP (Parallel)** *(Interview will be arranged Vhybrid format: on- / off - line)*	**Leaders EP clusters 12, 3, 6:** *Supervisor EP 6B04107 Social mediamarketing, EP 6B04109 State financial management* – Baitikenov Gulzhan Alpekovna *Supervisor EP 7M04107 Social media marketing, EP 7M04102 Technological entrepreneurship* – Rakhimberdinova Madina Umargalievna, doctor Ph.D. , associated Professor *Supervisor EP 6B07109 Medical engineering (Medical equipment)* – Orazova Araylym Zhanbolatkyzy *Supervisor EP 6B11202 innovative control security emergency natural and technogenic character* – Idrisheva Janat Kabylbekovna, Ph.D., assoc. Professor *Supervisor EP 8D05401 Mathematics* – Rakhmetullina Zhenisgul Toleukhanovna, Ph.D.- mat.s. 6. Head of EP 8D07103 Thermal power engineering – Segeda Tamara Alexandrovna, Ph.D., Associate Professor 7. Head. Department of "Foreign Languages" - Khasenova Lira Nurlanovna **Head department partner universities:** . *Head department «Media communications And story Kazakhstan" IITU* - Niyazgulov Aigul Askarbekovna, . *Head department economy And Entrepreneurship KarU Kazpotrebsoyuz* - Nevmatulina Karina Anvarovna, doctor PhD . *Head department physiological disciplines name well-deserved figure Sciences RK T.A. Nazarova NJSC "SMU"* - Rakhyzhanova Saule Oryngazievna, PhD . *Head department biochemistry And chemical disciplines NJSC "SMU"* - Olzhaev Rauza Romanovna, Ph.D.	**Audience G-1-101** Join a Zoom meeting https :// us 02 web . zoom . us / j /4941240662 Identifier conferences: 494 124 0662 *(session hall Zoom 1)*

		Leaders EP clusters 4, 5 1. *Supervisor EP 6B07312 Land cadastre and land management* – Yuliya Gusarenko Dmitrievna 2. *Supervisor EP 7M11301 Organization transportation, movements and exploitation transport* – Konarbaeva Gulnur Nurlybekovna 3. *Head of EP 6B07309 BIM - technologies in designing* – Makhiev Bekbolat Espulovic, Ph.D., associated Professor 4. *Supervisor EP 7M07312 Land inventory and land management* – Rakhymberdina Marzhan Yesenbekovna, doctor Ph.D. ,associated Professor	Join a Zoom meeting https :// us 02 web . zoom . us / j /4941240662 Identifier conferences: 494 124 0662 *(session hall Zoom 2)*
16.05-16.20	**Technical break**	*External experts IAAR*	**Audience G-1-101**
16.20-17.00	**Interviews with teachersEP** *(Interview will be arranged Vhybrid format: on- / off - line)*	**Clusters 12, 3, 6** *(Application #1 List teaching staff For interview)*	**Audience G-1-101** Join a Zoom meeting https :// us 02 web . zoom . us / j /4941240662 Identifier conferences: 494 124 0662 *(session hall Zoom 1)*
		Clusters 4, 5 *(Application #1 List teaching staff For interview)*	Join a Zoom meeting https :// us 02 web . zoom . us / j /4941240662 Identifier conferences: 494 124 0662 *(session hall Zoom 2)*
17.00-17.15	**Technical break**	*External experts IAAR*	**Audience G-1-139**

17.15-18.30	**Questioning of teaching staff (parallel)**	*All teachers of assessed EPs (Appendix No. 1.1 List of teaching staff forsurvey)*	*Link to participate in the surveywill be sent to email teacher personally*
17.15-18.00	**Visual inspection of the TOE** *(Inspection of objects off - line participating experts)*	**cluster 2, 6** **Cluster 3** *6 B 11202 Innovative Management safety of emergencies of natural and man-caused character*	Route attached
		cluster 3 *Video (10-15 minute video clip about infrastructure OP 6 B 04109 Statefinancial management: audience, halls,laboratories, sports and other halls)* **cluster 14, 5** *Videos (10-15 minute video clip aboutinfrastructure OP: audience, halls,laboratories, sports and other halls)*	View videos **Audience G-1-139** Join a Zoom meetinghttps :// us 02 web . zoom . us / j /4941240662 Identifier conferences: 494 124 0662
18.00-18.30	**Results of the first day of workWEC**	*External experts IAAR*	**Audience G-1-139** Join a Zoom meetinghttps :// us 02 web . zoom . us / j /4941240662 Identifier conferences: 494 124 0662 (Only For VEC)
18.30-19.30	**Dinner**	*External experts IAAR*	**cafe "Brig"**
Day 2: 26 April 2023 of the year			
10.00-10.20	**Job WEC**	*External experts IAAR*	**Audience G-1-139** Join a Zoom meetinghttps :// us 02 web . zoom . us / j /4941240662 Identifier conferences: 494 124 0662 (Only For VEK)

10.20-11.00	**Interviews with students** *(Interview will be arranged Vhybrid format: on- / off - line)*	**Clusters 12, 3, 6** *(Application #2 List students)*	**Audience G-1-101** Join a Zoom meeting https :// us 02 web . zoom . us / j /4941240662 Identifier conferences: 494 124 0662 *(session hall Zoom 1)*
		Clusters 4, 5 *(Application #2 List students)*	Join a Zoom meeting https :// us 02 web . zoom . us / j /4941240662 Identifier conferences: 494 124 0662 *(session hall Zoom 2)*
11.00-11.15	**Technical break**	*External experts IAAR*	**Audience G-1-139**
11.15-12.00	**Questionnaire studentsEP (parallel)**	**All students of the assessed EP** *(Appendix No. 2.1 List of EP students forsurvey)* *(Provide participation Not less 40%contingent students EP)*	*Link to participate in the surveywill be sent to email student personally*
11.15-13.00	**Work with documents** *(documents uploaded to folderscloud)* **and attending classes PPP on schedule** *Appendix* 1.A “Extract from EP class schedules clusters" with links to ZOOM *(attending classes off -line participating expertsV traditional format)*	**Cluster 1** Cloud link: https :// drive . google . com / drive / folders / 1utfAq- _ IMTP 1 jwQdzDCiSNT - rRPhC 2 k ? usp = share_link _ _ **Cluster 2** Cloud link: https :// drive . google . com / drive / folders / 1 HxHWwE- anIoIoRdazqHSKR 5 JvPfL 3 zwQ ? usp = share_link _ _ **Cluster 3** Cloud link: https :// drive . google . com / drive / folders / 1 ASMxu_n3 _ _ L 3 FOC 0 ViKCq 4 FnMOZmmEb 7 AA ? usp = share_lin _ _k **Cluster 4** Cloud link: https :// drive . google . com / drive / folders / 17HLpZpMAvS 23 OAGAG - QNsjvWppmECKkE ? usp = share_link _ _ **Cluster 5** Cloud link: https :// drive . google . com / drive / folders /1 H 21 ZWiha AGK 1 NVBp _ Oh 9 r 0 QdqZYZW 43 r ? usp = share_link _ _	visit classes according to graphic arts **Audience G-1-139** Join a Zoom meeting https :// us 02 web . zoom . us / j /4941240662 Identifier conferences: 494 124 0662

		Cluster 6 Cloud link: https :// drive . google . com / drive / folders /1 Cde 4 NtJvS KbnbZvN 9 uK 2 B 6 bI 0 x 4 XQuTe ? usp = share_link _ _	
13.00-14.00	**Dinner**	*External experts IAAR*	**cafe "Pomegranate"**
14.00-16.00	**Visiting the practice bases of the EP (parallel)**	**cluster 2, 6** **Cluster 3** *(6 B 11202 Innovative Managementsafety of emergencies of natural and man-caused character)* *(Application 4.1 List practice base)*	Route By bases practitioner
		cluster 3 *Link to video (10-15 minute video aboutbases practitioner EP 6B04109 State financial management)* **Clusters 14, 5** *Link to video (10-15 minute video aboutbases EP practitioner)*	Watch videos by basespractitioner **Audience G-1-139** Join a Zoom meetinghttps :// us 02 web . zoom . us / j /4941240662 Identifier conferences: 494 124 0662
14.00-16.00	**Work with documents** *(documentation loaded in folderscloud)* **and attending classes teaching staff By schedule**	**Cluster 1** Cloud link: https :// drive . google . com / drive / folders / 1utfAq- _ IMTP 1 jwQdzDCiSNT - rRPhC 2 k ? usp = share_link _ _ **Cluster 2** Cloud link: https :// drive . google . com / drive / folders / 1 HxHWwE- anIoIoRdazqHSKR 5 JvPfL 3 zwQ ? usp = share_link _ _ **Cluster 3** Cloud link: https :// drive . google . com / drive / folders / 1 ASMxu_n3 _ _ L 3 FOC 0 ViKCq 4 FnMOZmmEb 7 AA ? usp = share_lin _ _ k **Cluster 4** Cloud link: https :// drive . google . com / drive / folders / 17HLpZpMAvS 23 OAGAG - QNsjvWppmECKkE ? usp = share_link _ _ **Cluster 5** Cloud link: https :// drive . google . com / drive / folders /1 H 21 ZWiha AGK 1 NVBp _ Oh 9 r 0 QdqZYZW 43 r ? usp =	**Audience G-1-139** Join a Zoom meetinghttps :// us 02 web . zoom . us / j /4941240662 Identifier conferences: 494 124 0662

		share_link _ _ **Cluster 6** Cloud link: https :// drive . google . com / drive / folders /1 Cde 4 NtJvS KbnbZvN 9 uK 2 B 6 bI 0 x 4 XQuTe ? usp = share_link _ _	
16.00-16.15	**Technical break**	*External experts IAAR*	**Audience G-1-139**
16.15-17.00	**Alumni InterviewsEP** *(Interview will be arranged in hybrid format: on- / off - line)*	*Graduates EP* **Clusters 1, 5, 6** *(Application No. 3 List alumni EP)*	**Audience G-1-101** Join a Zoom meetinghttps :// us 02 web . zoom . us / j /4941240662 Identifier conferences: 494 124 0662 *(session hall Zoom 1)*
17.00-17.10	**Technical break**	*External experts IAAR*	**Audience G-1-101**
17.10-17.50	**Interview With employersEP** *(Interview will be arranged in hybrid format: on- / off - line)*	*Employers* EP **Clusters 1, 5, 6** *(Application No. 4 List EP's employers)*	**Audience G-1-101** Join a Zoom meetinghttps :// us 02 web . zoom . us / j /4941240662 Identifier conferences: 494 124 0662 *(session hall Zoom 1)*
16.15-17.50	**Individual work experts WEC (parallel)**	*External experts IAAR* **clusters 2, 3, 4** *continue work With documents*	**Audience G-1-139** Join a Zoom meetinghttps :// us 02 web . zoom . us / j /4941240662 Identifier conferences: 494 124 0662 *(session hall Zoom 2)*
17.50-20.00	**WEC work: summarizing results of the second day and parameter discussion profiles** (*ongoing record)*	*External experts IAAR*	**Audience G-1-139** Join a Zoom meetinghttps :// us 02 web . zoom . us / j /4941240662 Identifier conferences: 494 124 0662 (Only For VEC)
20.00-21.00	**Dinner**	*External experts IAAR*	**cafe "Brig"**

Day 3: 27 April 2023			
10.00-11.30	**WEC work: development and discussion of recommendations** *(ongoing record)*	*External experts IAAR*	**Audience G-1-139** Join a Zoom meeting https :// us 02 web . zoom . us / j /4941240662 Identifier conferences: 494 124 0662 (only for VEC)
11.30-11.45	**Technical break**	*External experts IAAR*	**Audience G-1-139**
11.45-13.00	**WEC work: development and discussion recommendations**	*External experts IAAR*	**Audience G-1-139** Join a Zoom meeting https :// us 02 web . zoom . us / j /4941240662 Identifier conferences: 494 124 0662 (only For VEC)
13.00-14.00	**Dinner**	*External experts IAAR*	**cafe "Pomegranate"**
14.00-15.45	**WEC work: acceptance voting decisions***(ongoing record)*	*External experts IAAR*	**Audience G-1-139** Join a Zoom meeting https :// us 02 web . zoom . us / j /4941240662 Identifier conferences: 494 124 0662 (only for VEC)
15.45-16.00	**Technical break**	*External experts IAAR*	**Audience G-1-139**
16.00-16.30	**Final meeting WECWith leadership university**	*Management university, leaders EP,EEC IAAR*	**Audience G-1-101** Join a Zoom meeting https :// us 02 web . zoom . us / j /4941240662 Identifier conferences: 494 124 0662
16.30-18.00	**Summing up the work WEC**	*External experts IAAR*	**Audience G-1-139** Join a Zoom meeting https :// us 02 web . zoom . us / j /4941240662 Identifier conferences: 494 124 0662 (only for VEK)
18.00-19.00	**Dinner**	*External experts IAAR*	**cafe "Brig"**
Departure off - line experts *28 April 2023*			

Annex 3. SURVEY RESULTS OF THE FACULTY

1. Total number of profiles: 57

2. Position

Professor	10 people	17.5 %
Assistant professor	11 people	19.3 %
Senior lecturer	18 people	31.6 %
Lecturer	11 people	19.3 %
Head department	3 people	5.3 %
Aassociate professor	2 people	3. 4 %
Head of the Central Committee of Ecology and Belarusian Railways	1 person	1.8 %
Acting Associate Professor	1 person	1.8 %

3. Academic degree, academic title

Honored Worker of the Republic of Kazakhstan	0 people	0 %
Doctor of Science	3 people	5.3 %
Candidate of Science	20 people	35.1 %
Master	17 people	29.8 %
PhD	13 people	22.9 %
Professor	1 person	1.8 %
Assistant professor	8 people	14 %
No	4 people	7 %
Aassociate professor	1 person	1.8 %

4. Work experience

Less than 1 year	1 person	1.8 %
From 1 to 5 years	7 people	12.3 %
More than 5 years	49 people	86 %

No	Questions	Very good	Fine	Relatively bad	Badly	Very bad	Didn't answer
6	To what extent does the content of the educational program meet your scientific and professional interests and needs?	42 people (73.7 %)	15 people (26.3 %)	0 people (0 %)	0 people (0%)	0 people (0%)	-
7	How do you assess the opportunities provided by the university for the professional development of teaching staff	32 people (56.1 %)	25 people (43.9 %)	0 people (0 %)	0 people (0%)	0 people (0%)	-
8	How do you assess the opportunities provided by the university for the career growth of teaching staff	26 people (45.6 %)	30 people (52.6 %)	1 person (1.8 %)	0 people (0 %)	0 people (0%)	-
9	How do you assess the degree of academic freedom of teaching staff	23 people (40.4 %)	33 people (57.9 %)	1 person (1.8 %)	0 people (0 %)	0 people (0%)	-
	To what extent can teachers use their own						
10	• Strategies	35 people (61.4 %)	22 people (38.6 %)	0 people (0%)	0 people (0%)	0 people (0%)	-
11	• Methods	42 people (73.7 %)	15 people (26.3 %)	0 people (0%)	0 people (0%)	0 people (0%)	-
12	• Innovation in the learning process	40 people (70.2 %)	17 people (29.8 %)	0 people (0%)	0 people (0%)	0 people (0%)	-
13	How do you assess the work on the organization of medical care and disease prevention at the university?	39 people (68.4 %)	16 people (28.1 %)	2 people (3.5 %)	0 people (0%)	0 people (0%)	-
14	How does the management of the educational institution pay attention to the content of the educational program?	36 people (63.2 %)	21 people (36.8 %)	0 people (0%)	0 people (0%)	0 people (0%)	-

15	How do you assess the sufficiency and availability of the necessary scientific and educational literature in the library?	3 2 people (56.1 %)	23 people (40.4 %)	2 people (3.5 %)	0 people (0%)	0 people (0%)	-
16	Assess the level of conditions created that take into account the needs of different groups of students?	29 people (50.9 %)	28 people (49.1 %)	0 people (0%)	0 people (0%)	0 people (0%)	-
	Assess the accessibility of the guide						
17	• Students	40 people (70.2 %)	17 people (29.8 %)	0 people (0%)	0 people (0%)	0 people (0%)	-
18	• Teachers	40 people (70.2 %)	16 people (28.1 %)	1 person (1.8 %)	0 people (0%)	0 people (0%)	-
19	Assess the involvement of teaching staff in the process of making managerial and strategic decisions	2 2 people (38.6 %)	33 people (57.9 %)	2 people (3.5 %)	0 people (0%)	0 people (0%)	-
20	How is the innovation activity of teaching staff encouraged?	2 2 people (38.6 %)	34 people (59.6 %)	1 person (1.8 %)	0 people (0%)	0 people (0%)	-
21	Assess the level of feedback from teaching staff with management	31 people (54.4 %)	26 people (45.6 %)	0 people (0%)	0 people (0%)	0 people (0%)	-
22	What is the level of stimulation and involvement of young professionals in the educational process?	25 people (43.9 %)	31 people (54.4 %)	0 people (0%)	1 person (1.9 %)	0 people (0%)	-
23	Evaluate the created opportunities for professional and personal growth for each teacher and employee	32 people (56.1 %)	23 people (4 0.4 %)	1 person (1.8 %)	1 person (1.9 %)	0 people (0%)	-
24	Assess the adequacy of recognition of the potential and abilities of teachers	25 people (43.9 %)	32 people (56.1 %)	0 people (0%)	0 people (0%)	0 people (0%)	-
	How is the work done						
25	• For academic mobility	20 people (35.1 %)	33 people (57.9 %)	4 people (7 %)	0 people (0%)	0 people (0%)	-
26	• To improve the qualifications of teaching staff	2 6 pers. (45.6 %)	27 people (4 7.4 %)	4 people (7 %)	0 people (0%)	0 people (0%)	-
	Evaluate the support of the university and its management						
27	• Research initiatives of teaching staff	2 6 pers. (45.6 %)	31 people (54.4 %)	0 people (0%)	0 people (0%)	0 people (0%)	-
28	• Development of new educational programs / academic disciplines / methods	30 people (52.6 %)	2 7 pers. (47.4 %)	0 people (0%)	0 people (0%)	0 people (0%)	-
	Assess the level of ability of teaching staff to combine teaching						
29	• With scientific research	25 people (43.9 %)	29 people (50.9 %)	3 people (5.3 %)	0 people (0%)	0 people (0%)	-
thirty	• with practical activities	21 people (36.8 %)	31 people (54.4 %)	5 people (8.8%)	0 people (0%)	0 people (0%)	-
31	Assess the extent to which students' knowledge obtained at this university corresponds to the realities of the requirements of the modern labor market	31 people (54.4 %)	26 people (45.6 %)	0 people (0%)	0 people (0%)	0 people (0%)	-
32	How does the leadership and administration of the university perceive criticism?	1 4 people (24.6 %)	43 people (75.4 %)	0 people (0%)	0 people (0%)	0 people (0%)	-
33	Assess how your workload meets your expectations and abilities	21 people (36.8 %)	2 9 people (50.9 %)	7 people (12.3 %)	0 people (0%)	0 people (0%)	-
34	Evaluate the focus of educational programs / curricula on the formation of students' skills and abilities to analyze the situation and make forecasts	2 5 people (43.9 %)	32 people (56.1 %)	0 people (0%)	0 people (0%)	0 people (0%)	-

35	Assess how the educational program in terms of content and quality of implementation meets the expectations of the labor market and employers	29 people (50.9 %)	28 people (49.1 %)	0 people (0%)	0 people (0%)	0 people (0%)	-

36. Why do you work in this university?

1. The leading technical university of the country, which is the center of advanced engineering education.
2. It is possible to teach in English
3. I am a graduate of this university
4. Strong and promising university
5. Like teaching activities and the opportunity to engage in research
6. Good pay and the possibility of personal growth, as well as the implementation of scientific interests
7. Zhaksy zhalaky, zhaksy zhұmys shart-zhagdayy
8. My native university, I opened the specialty "Urban cadastre" in this university, the university creates all the conditions for teaching, scientific activities.
9. Akparattyk technologylarmen tygyz baylanysy, kyzmettik өsuge zhagdai zhasaluy, bilim berudin practitioners bagytynyn basimdygy

37. How often do you have workshops and lectures with practitioners in your course?

Very often	11 people	19.3 %
Often	31 people	54.4 %
Sometimes	14 people	24.6 %
Pretty rare	1 person	1.8 %
Never	0 people	0%

38. How often do invited teachers (domestic and foreign) participate in the learning process?

Very often	20 people	35.1 %
Often	28 people	49.1 %
Sometimes	9 people	15.8 %
Pretty rare	0 people	0%
Never	0 people	0%

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

	Often	**Sometimes**	**Never**	**No answer**
Lack of classrooms	0 people (0 %)	24 people (42.1 %)	33 people (57.9 %)	-
Unbalanced study load by semesters	3 people (5.3 %)	38 people (66.7 %)	16 people (28.1%)	-
Unavailability of necessary literature in the library	0 people (0 %)	22 people (38.6 %)	35 people (61.4 %)	-
Overcrowding of study groups (too many students in the group)	0 people (0 %)	7 people (12, %)	50 people (87.7 %)	-
Inconvenient schedule	0 people (0 %)	25 people (43.9 %)	32 people (56.1 %)	-
Inappropriate conditions for classes in classrooms	0 people (0 %)	20 people (35.1 %)	37 people (64, 9 %)	-
No internet access/poor internet	0 people (0 %)	26 people (45.6 %)	31 people (54.4 %)	-
Students' lack of interest in learning	0 people (0%)	26 people (45.6 %)	31 people (54.4 %)	-
Untimely receipt of information about events	0 people (0 %)	12 people (21.1 %)	45 people (78.9 %)	-
Lack of technical facilities in classrooms	2 people (3.5 %)	35 people (61.4 %)	20 people (35.1 %)	-
Other problems	• No • No problem • No obvious problems • Technical equipment • There are no problems, if any, they are solved privately, very			

	quickly and all the needs of the teacher regarding the educational process are satisfied • Masele zhok • There are none • No problem • Missing • There are no problems • No warm water in winter to wash hands • Lack of software equipment • Bari zhaksy • Rather lengthy coordination of documents in the Directum system • There are no special technical and organizational problems • there are no unsolvable problems. Everything is solved gradually, or on-line, as needed. • Kazakh tilindegi mamandandyrylgan adebietterdin az boluy • Päder boyinsha keide kazaksha okulyktardyn zhetispeushiligi • Oku barysynda қoldanylatyn қazaқsha әdebietterdin azdygy • Kazakh tilinde әdebietterdin azdygy • Not all classrooms have excellent internet access • Technical equipment • No problem • a lot of paper work that can be converted into electronic form • Lack of computer classrooms • It is advisable to install graphic tablets connected to a PC and a projector in lecture halls • Difficulties in acquiring the necessary materials for scientific work through the state. purchase • no problem. • There are no special problems, something small happens • Weak internet in some classrooms • I would like 13 wages • Resolved as they arise • The growth in the number of students does not keep pace with material support, it is necessary to address the issues of the classroom fund • Aytarlyқtay masele zhok. • Student zhatakhananyn bolmauy

40. There are many different sides and aspects in the life of the university, which in one way or another affect every teacher and employee. Rate how satisfied you are:

Question	Completely satisfied	Partially satisfied	Not satisfied	Difficult to answer
The attitude of the university management towards you	43 people (75.4 %)	13 people (22.8 %)	1 person (1.8 %)	0 people (0 %)
Relationships with direct management	52 people (91.2 %)	5 people (8.8 %)	0 people (0 %)	0 people (0 %)
Relationships with colleagues in the department	55 people (96.5 %)	2 people (3.5 %)	0 people (0 %)	0 people (0 %)
Participation in management decision making	41 people (71.9 %)	1 4 people (24.6 %)	0 people (0 %)	2 people (3.5 %)
Relations with students	55 people (96.5 %)	2 people (3.5 %)	0 people (0 %)	0 people (0 %)
Recognition of your successes and achievements by the administration	44 people (77.2 %)	12 people (21.1 %)	1 person (1.8 %)	0 people (0 %)
Support for your suggestions and comments	44 people (77.2 %)	12 people (21.1 %)	0 people (0 %)	1 person (1.8 %)
The activities of the administration of the university	3 9 pers. (68.4 %)	17 people (29.8 %)	0 people (0 %)	1 person (1.8 %)
Terms of pay	26 people (45.6 %)	29 people (50.9 %)	1 person (1.8 %)	1 person (1.8 %)
Working conditions, list and quality of services provided at the university	47 people (82.5 %)	9 people (15.8 %)	0 people (0%)	1 person (1.8 %)
Occupational health and safety	48 people (84.2 %)	9 people (15.8 %)	0 people (0 %)	0 people (0 %)

Management of changes in the activities of the university	40 people (70.2 %)	16 people (28.1 %)	1 person (1.8 %)	0 people (0 %)
Providing a social package: rest, sanatorium treatment, etc.	22 people (38.6 %)	26 people (45.6 %)	4 people (7 %)	5 people (8.8 %)
Organization and quality of food at the university	42 people (73.2 %)	15 people (26.3 %)	0 people (0 %)	0 people (0 %)
Organization and quality of medical care	44 people (77.2 %)	12 people (21.1 %)	1 person (1.8 %)	0 people (0 %)

Annex 4. SURVEY RESULTS OF STUDENTS

Questionnaire for students

Total number of profiles: 177

6B04107 Social media marketing	8	4.52%
7M04107 Social media marketing	2	1.13%
6B07109 Medical engineering (Medical equipment)	11	6.21%
7M04102 Technology Entrepreneurship	4	2.26%
6B04109 State financial management	27	15.25%
6B11202 Innovative safety management of natural and man-made emergencies	10	5.65%
6B07312 Land cadastre and land management	84	47.46%
7M11301 Organization of transportation, traffic and transport operation	4	2.26%
6B07309 BIM - technologies in design	6	3.39%
7M07312 Land cadastre and land management	13	7.34%
8D05401 Mathematics	2	1.13%
8D07103 Thermal power engineering	6	3.39%

Sex:

Male	60.5
Female	39.5

Rate how satisfied you are:

Questions	Completely satisfied	Partially satisfied	Partially dissatisfied	Not satisfied	I'm at a loss answer
1. Relations with the dean's office (school, faculty, department)	85.9	14.1			
2. The level of accessibility of the dean's office (school, faculty, department)	84.7	13.6	1.7		
3. The level of accessibility and responsiveness of the leadership (university, school, faculty, department)	83.6	14.7	1.1	0.6	
4. Availability of academic counseling	80.2	18.7			1.1
5. Support with educational materials in the learning process	78.5	18.1	3.4		
6. Availability of personal counseling	73.4	19.3	5.6	0.6	1.1
7. Relationship between student and teacher	78.5	18.7	2.8		
8. The activities of the financial and administrative services of the educational institution	70.6	22.6	3.4	1.1	2.3
9. Availability of health services	73.4	19.7	2.3	0.6	4
10. The quality of medical care at the university	69.5	22	1.7	1.7	5.1
11. The level of availability of library resources	91	7.3	1.1	0.6	
12. The quality of services provided in libraries and reading rooms	87	10.2	1.7	1.1	
13. Existing educational resources of the university	86.4	11.3	1.7		0.6
14. Availability of computer classes	74	19.2	3.4	1.7	1.7
15. Availability and quality of Internet resources	71.2	20.9	5.1	1.7	1.1
16. The content and information content of the website of educational organizations in general and faculties (schools) in particular	89.3	9.6	1.1		
17. Study rooms, auditoriums for large groups	77.4	17.5	2.8	1.7	0.6
18. Lounges for students (if any)	76.3	17.4	1.7	0.6	4
19. Clarity of disciplinary procedures	79.7	15.8	1.7		2.8
20. The quality of the educational program as a whole	83.6	14.7	1.7		
21. The quality of study programs in the EP	81.9	16.9	0.6	0.6	
22. Teaching methods in general	75.7	20.9	1.7	1.7	
23. Quick response to feedback from teachers on the educational process	79.7	17.5	1.7		1.1
24. Overall quality of teaching	83.1	15.2	1.7		
25. Academic load / requirements for the student	71.2	21.5	5.6	1.1	0.6
26. The requirements of the teaching staff for the student	79.1	15.2	2.3		3.4

27. Information support and clarification before entering the university of the rules for admission and the strategy of the educational program (specialty)	85.3	10.7	2.3	1.1	0.6
28. Informing the requirements in order to successfully complete this educational program (specialty)	86.4	11.3	1.7	0.6	
29. The quality of examination materials (tests and examination questions, etc.)	80.8	17.5	0.6		1.1
30. Objectivity in assessing knowledge, skills and other educational achievements	79.1	16.5	2.2	2.2	
31. Available computer classes	73.5	22	1.7	1.7	1.1
32. Available scientific laboratories	74.8	17.8	2.3	1.1	4
33. Objectivity and fairness of teachers	71.2	22	5.1		1.7
34. Informing students about courses, educational programs and the academic degree received	85.8	9.6	2.3	0.6	1.7
35. Providing students with a hostel	76.2	11.3	2.3		10.2

How much do you agree with:

Statement	Full consent	Agree	Partially agree	Disagree	Complete disagreement	Didn't answer
36. The course program was clearly presented	78	17.5	4.5			
37. Course content is well structured	73.4	19.8	6.2	0.6		
38. Key terms adequately explained	68.9	27.7	3.4			
39. The material proposed by the teacher is relevant and reflects the latest achievements of science and practice	67.8	26	6.2			
40. The teacher uses effective teaching methods	64.4	25.4	7.9	1.7	0.6	
41. The teacher owns the material being taught	74	22.6	3.4			
42. The lecturer's presentation is clear	68.4	25.4	6.2			
43. The teacher presents the material in an interesting way	61.5	23.2	12.4	2.3	0.6	
44. Objectivity in assessing knowledge, skills and other educational achievements	62.7	24.3	9.6	3.4		
45. The timeliness of assessing the educational achievements of students	63.8	26.6	7.9	1.7		
46. The teacher meets your requirements and expectations for professional and personal development	63.3	27.7	7.3	1.7		
47. The teacher stimulates the activity of students	63.9	23.7	11.3	1.1		
48. The teacher stimulates the creative thinking of students	59.8	26.6	11.3	1.7	0.6	
49. Appearance and manners of the teacher are adequate	72.3	25.4	1.7	0.6		
50. The teacher has a positive attitude towards students	67.8	22.6	9.6			
51. The system for assessing educational achievements (seminars, tests, questionnaires, etc.) reflects the content of the course	71.7	24.9	2.8	0.6		
52. Evaluation criteria used by the teacher are clear and accessible	72.3	22.6	5.1			
53. The teacher objectively evaluates the achievements of students	65.5	24.3	9.6	0.6		
54. The teacher speaks a professional language	75.6	21.5	2.3	0.6		
55. The organization of education provides sufficient opportunities for sports and other leisure activities.	71.2	21.5	5.6	1.1	0.6	
56. Facilities and equipment for students are safe, comfortable and modern	68.9	20.9	8.5	1.1	0.6	
57. The library is well equipped and has a sufficient fund of scientific, educational and methodical literature	79.1	16.9	2.8	1.1		
58. Equal opportunities for mastering the EP and personal development are provided to all students	76.8	19.8	1.1	2.3		

Other concerns regarding the quality of teaching:

- -
- No
- No problem
- No problem
- No
- There are no problems
- Maseleler zhok
- no problem

- No problems regarding the quality of teaching
- Eshkandai maslele zhok, bari өte zhogargy deңgeyde.
- Baska maseleler baikalmady, kalganymen tolyktai kelisemin
- Okytu sapasyna katysty masleler zhok
- Jock
- Zhok
- zhok
- Zhatakhana tural saualnama
- No problem
- .
- Barlygy zhaksy zhasalgan al suraqtar tuyndasa curator of the deanery arkyly sheshuge bolady azirge surakқtar maseler zhok osy oku ornina rizamyn
- Menin oyymsha auditoriumlarda materialdyk bazany birneshe ese zhaksartsa.
- There are no problems.
- The University needs renovation!
- Meni university_mnin oқu sapas қanaғattandyrady!
- Bilim take bagdarlamasy men university okytuyna көңilim tolyқtai tolady. Menin oyymsha, audience of men materialdyk bazalardy zhaksartsa dep oylaymyn.
- No problem.
- No problem
- None
- Barlygy kolzhetimdi zhane sapali, 1-course bolgandyқtan ali biraz akparatpen tanysu kerek
- Masele zhok, oku sapasy zhaksy
- Everything is fine
- Masele zhok
- No offers
- Bizdin mamandyk boyinsha bilim I take sapas öte zhaksy! Men wasps bilim beretin university student tüskenime kuanamyn!
- Yeshkanday masele zhok
- most of the teachers do not like university activists, although activists raise the university very much no worse than any laboratories or discoveries
- Creativity and the ability to attract attention
- No
- Dissatisfied with the schedule
- No
- No
- No problem. Excellent teaching staff.
- Teachers are incompetent
- Bilim aluga kyzyktyratyn sharalar uyimdar zharystar zhok deuge bolady, sapasy nashar bolsada. Tekhnikalyқ mamandyқ қyzyқsyz kөrinedi oku barysy. Ozge univerlerge baru zharyska katysu ushin tek en myktylar gana barady onyn ozinde ozine senimdi. Al kөpshiligi zhai student bolip kalady.ashyluға mүmkindik az
- Didn't notice any problems
- Baska maseleler zhok
- If we talk about teaching in my school, then there are no problems at all, but subjects that do not belong to my profession are complete nonsense. Why the hell do they strain me with absolutely unnecessary subjects when I entered the profession, I spend an incredible amount of energy in order to pass an unnecessary subject so that I would not be expelled, wow, this is so cool. In order to study everything else, I can go back to school, this nonsense at the university is not needed, it only wastes the student’s time, and especially the nerves, I lost interest in studying due to the fact that they put under my nose the wrong subjects that should be , 1 course is just a bunch of piled something for show.