



«АККРЕДИТЕУ 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 the assessment of compliance with the requirements of the standards of specialized accreditation of educational programs  
6B05401 "Actuarial Mathematics", 7M05401 "Actuarial Mathematics"  
NAO "Al-Farabi Kazakh National University"  
from "15" to "17" May 2023

INDEPENDENT ACCREDITATION AND RATING AGENCY  
External Expert Commission

Addressed to  
To the Accreditation  
Council of People 's



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6B05401 "Actuarial Mathematics", 7M05401 "Actuarial Mathematics"  
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Almaty

"17" May 2023

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## I. LIST OF DESIGNATIONS AND ABBREVIATIONS

Al-Farabi Kazakh National University – Al-Farabi Kazakh National University  
DB – Basic disciplines  
EEC – External Expert Commission  
SAC – State Attestation Commission  
GOSO – The State compulsory standard of education  
ICT – Information and communication technologies  
IS – Information Systems  
IUP – Individual Curriculum  
KV – Component of choice  
QED – Catalog of elective disciplines  
MES RK – Ministry of Education and Science of the Republic of Kazakhstan  
MOS – Modular educational programs  
IAAR – Independent Accreditation and Rating Agency  
NAO – Non-profit Joint Stock Company  
Research and development – Research work  
NIRM – Research work of undergraduates  
R&D – Research work of students  
NMS – Scientific and methodological seminar  
NU is a non-profit institution  
OK – Required component  
OOD – General education disciplines  
EP – Educational programs  
PD – Profile disciplines  
Teaching staff – Teaching staff  
RUP – Working Curriculum  
CPM – Independent work of undergraduates  
SRMP – Independent work of undergraduates under the guidance of a teacher  
SRS – Independent work of students  
SRSP – Independent work of students under the guidance of a teacher  
LLP – Limited Liability Partnership  
EMKD – Educational and methodical complex of the discipline  
EMKS – Educational and methodical complex of the specialty

## II. INTRODUCTION

In accordance with Order No. 74-23-OD of 10.03.2023 of the Independent Accreditation and Rating Agency, from May 15 to May 17, 2023, an external expert commission assessed the compliance of educational programs 6B05401 "Actuarial Mathematics", 7M05401 "Actuarial Mathematics" of the Al-Farabi Kazakh National University with the standards of specialized accreditation of the IAAR (from June 16 2020 No. 57-20-OD, sixth edition) in a hybrid format.

The report of the external expert commission (EAC) contains an assessment of the submitted educational programs according to the criteria of the IAAR, recommendations of the EAC for further improvement of educational programs and parameters of the profile of educational programs

### **The composition of the EEC:**

**IAAR Expert, Chairman of the EEC** – Tulupova Elena Sergeevna, Ph.D., Institute of Public Health and Medical Law, 1st Medical Faculty of Charles University (Czech Republic, Prague), Off-line participation;

**IAAR Expert** – Ekaterina Vasilevskaya, PhD, Associate Professor, Omsk State Medical University (Omsk, Russian Federation), Off-line participation;

**IAAR expert** – Alma Boranbekovna Shukirbekova, Ph.D., Professor, Astana Medical University JSC (Republic of Kazakhstan, Astana), On-line participation;

**IAAR expert** – Seidakhmetova Aizat Ashimkhanovna, PhD, JSC "South Kazakhstan Medical Academy" (Republic of Kazakhstan, Shymkent), Off-line participation;

**IAAR Expert** - Zhalilov Fazliddin Sodikovich, MD, Tashkent Pharmaceutical Institute, (Republic of Uzbekistan, Tashkent), Off-line participation;

**IAAR Expert** – Altynai Amanbaevna Maukenova, Candidate of Economics, S.D.Asfendiyarov Kazakh National Medical University, (Republic of Kazakhstan, Almaty), Off-line participation;

**IAAR expert** – Dmitry P. Muchkin, PhD, Associate Professor, NAO "Pavlodar Pedagogical University" (Republic of Kazakhstan, Pavlodar), Off-line participation;

**IAAR Expert** – Sultanova Gulnar Dostanovna, PhD, NAO "West Kazakhstan Medical University" (Republic of Kazakhstan, Aktobe), Off-line participation;

**IAAR Expert** - Imasheva Bagdat Sakenovna, PhD, Professor, Advisor to the Chairman of the Board, National Center for Public Health of the Ministry of Health of the Republic of Kazakhstan (Republic of Kazakhstan, Astana), Off-line participation;

**IAAR Expert** – Ganagina Irina Gennadijevna, Candidate of Technical Sciences, Siberian State University of Geosystems and Technologies (Novosibirsk, Russian Federation), On-line participation;

**IAAR Expert** – Yerdauletov Meir Sapargalievich, Joint Institute for Nuclear Research (Dubna, Russian Federation), Off-line participation;

**IAAR Expert** – Kabyshev Asset Maratovich, PhD, L.N. Gumilyov Eurasian University (Republic of Kazakhstan, Astana), Off-line participation;

**IAAR expert** – Kasymov Askar Bagdatovich, PhD, NAO "Shakarim University of Semey" (Republic of Kazakhstan, Semey), Off-line participation;

**IAAR Expert** Igor Kulzhumieva Ayman Amangeldievna, Ph.D., M.Utemisov West Kazakhstan University (Republic of Kazakhstan, Uralsk), On-line participation;

**IAAR expert, EEC employer** – Yeseneev Olzhas Brimzhanovich, Master of Business Administration in Healthcare, GU Hospital with Polyclinic of the Police Department of the North Kazakhstan Region (Republic of Kazakhstan, Petropavlovsk), On-line participation;

**Employer – IAAR Expert** - Yuri A. Pilipenko, International Association of Manufacturers of Goods and Services "Expobest" (Republic of Kazakhstan, Almaty) Off-line participation;

**IAAR expert, EEC student** – Kaibagarova Indira Boranbaevna, doctoral student, NAO "West Kazakhstan Medical University" (Republic of Kazakhstan, Aktobe), On-line participation;

**IAAR expert, EEC student** - Zhelubayeva Kainesh Turgunovna, Master's student, JSC "Astana Medical University" (Republic of Kazakhstan, Astana), On-line participation;

**IAAR expert, student of EEC** – Orazayeva Bayan Bolatkalikyzy, master's student of NAO "Semey Medical University" (Republic of Kazakhstan, Semey), On-line participation;

**IAAR expert, student of EEC** – Tungushov Sherkhan Zhasulanbekuly, student, NAO "Arkalyk Pedagogical Institute named after Y. Altynsarina" (Republic of Kazakhstan, Arkalyk), On-line participation;

**IAAR expert, student of EEC** - Shirinbek Beklan Saparalyuly, student, JSC "South Kazakhstan Medical Academy" (Republic of Kazakhstan, Shymkent), On-line participation;

**IAAR expert, student of EEC** – Dildabek Turar Kanatuly, student, Kazakh National Medical University named after S.D.Asfendiyarov, (Republic of Kazakhstan, Almaty), Off-line participation;

**IAAR expert, EEC student** – Tirzhanova Sabina Yerkinovna, doctoral student, NAO "Kazakh National Research Technical University named after K. I. Satpayev" (Republic of Kazakhstan, Almaty) Off-line participation;

**IAAR expert, EEC student** – Bagramova Assel Aidosovna, doctoral student, L.N. Gumilyov Eurasian University (Republic of Kazakhstan, Astana), On-line participation;

**IAAR expert, EEC student** – Kuzyakova Valentina Alekseevna, student of the NAO "Medical University of Karaganda", (Republic of Kazakhstan, Karaganda), On-line participation;

**IAAR expert, EEC student** – Mustafina Mergul Oralbekovna, doctoral student of S. Amanzholov East Kazakhstan University (Republic of Kazakhstan, Ust-Kamenogorsk), On-line participation;

**IAAR Coordinator** – Alisa Satbekovna Dzhakenova, PhD, Head of Medical Projects of the Agency (Republic of Kazakhstan, Astana), Off-line participation.

### III. REPRESENTATION OF THE EDUCATIONAL ORGANIZATION

Kazakh State University (KazGU) was established in 1934 on the basis of a pedagogical institute, as a result of a resolution of the Council of People's Commissars of the USSR and the Kazakh Regional Committee of the CPSU. In 1993, according to a special Decree of the President of the Republic of Kazakhstan, the university received a special status of an autonomous state University and was renamed Al Farabi Kazakh National University (Al Farabi Kazakh National University).

Today, Al Farabi Kazakh National University is a leading scientific, educational and innovative center where new knowledge, advanced ideas and technologies are created. The University strives to achieve the goals set forth in the Address of the First President of the country. One of these goals is to be included in the ranking of the best universities in the world, which implies high quality education and active participation in international research projects.

Al Farabi Kazakh National University continues to demonstrate its high position in the university rankings. In the QS World University Rankings for Eastern Europe and Central Asia (QS World University Rankings EECA 2022), the university occupies an honorable 16th place. This confirms its superiority in the region and its contribution to scientific and educational achievements.

According to the study "Academic Ranking of World Universities-European Standard" (ARES), an authoritative European rating, Al Farabi Kazakh National University is the leader among all higher educational institutions in Kazakhstan. The university was rated "AA" in its indicators, which places it among the leading European universities and significantly surpasses other Kazakh universities rated as "A+" and lower.

According to a study by the British Times Higher Education agency, Al Farabi Kazakh National University occupies the position 1001-1200. It ranks 401-500 in the Asia University Rankings, and 351-400 in THE Emerging Economies Rankings. This confirms the international recognition of the university and its active participation in research projects that contribute to the development of the region and the country as a whole.

A particularly important achievement for Al Farabi Kazakh National University is its position in the Graduate Employment Rankings (QS Graduate Employability Rankings), where it became the first university in Central Asia, ranking 201-250 among 550 universities. This indicates the high level of training of students and their successful integration into the labor market.

In 2020, Al Farabi Kazakh National University was awarded three nominations for the prestigious "Leader of Science" award provided by the authoritative Web of Science database. Five scientific journals of KazNU are included in international databases, including those on Medicine (Interdisciplinary Approaches to Medicine), which confirms their importance and reputation in the international scientific community.

The total Hirsch index, which reflects the scientific productivity and citation of scientists associated with the university, is more than 2,700. This testifies to the high level of scientific achievements and active scientific activity carried out by scientists of the Al-Farabi Kazakh National University.

Such results confirm that Al Farabi Kazakh National University occupies a leading position among higher education institutions in Kazakhstan and is one of the leading universities in Europe.

In 2015, Al-Farabi Kazakh National University decided to establish a Medical Faculty with the aim of actively contributing to the development of the healthcare and medicine system in Kazakhstan, as well as striving to achieve a high international level in the field of life sciences.

The Medical Faculty of KazNU offers training of specialists in the field of healthcare at various levels of educational programs, striving to meet international standards and take into account the latest scientific achievements.

The Faculty offers bachelor's, master's and doctoral degree programs, as well as provides an opportunity for additional professional education for business representatives and specialists from various fields and sectors involved in the development, promotion and implementation of programs aimed at improving and preserving health.

In 2018, as part of the Faculty of Medicine and Healthcare, the Higher School of Medicine was opened, which began the development and implementation of EP in clinical specialties – "General Medicine", and since 2019 – "Dentistry". In 2022, the Department of Dentistry was formed (separated into a separate department).

Thus, the Medical Faculty of Al Farabi Kazakh National University plays an important role in the development of healthcare and medicine in Kazakhstan, offering high-quality education and relevant knowledge in this field, taking into account modern requirements and international standards.

#### **IV. DESCRIPTION OF THE PREVIOUS ACCREDITATION PROCEDURE**

Educational programs 6B05401 "Actuarial Mathematics", 7M05401 "Actuarial Mathematics" are accredited in the IAAR for the first time.

#### **V. DESCRIPTION OF THE EEC VISIT**

The work in the EG was carried out on the basis of the approved Program of the visit of the expert commission on specialized accreditation of educational programs of the Al-Farabi Kazakh National University in the period from May 15 to 17, 2023.

In order to coordinate the work of the EEC, an on-line installation meeting was held on 12.05.2023, during which powers were distributed among the members of the commission, the schedule of the visit was clarified, and 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 the rector, vice-rectors of the university in areas of activity, heads of structural divisions, heads of departments, teachers, students, graduates, employers. A total of 80 representatives took part in the meetings (Table 1).

Table 1. Information about employees and students who took part in meetings with EEC IAAR.

Category of participants	Quantity
Rector	1
Vice -Rectors	4
Heads of structural divisions	31
Deans of faculties	4
Heads of departments	3
Teachers	-12



Students, undergraduates	14
Graduates	7
Employers	4
Total	80

During the visual inspection, the members of the EEC got acquainted with the state of the material and technical base, visited:

10 cluster

- No.321 lecture hall named after Academician of the National Engineering Academy of the Republic of Kazakhstan, International Engineering Academy, corresponding member of the National Academy of Sciences of the Republic of Kazakhstan, Ph.D., Professor Danaev N.T.;

- No. 324 lecture hall named after Laureate of the State Prize of the Republic of Kazakhstan in the field of science, technology and education, academician of the National Engineering Academy of the Republic of Kazakhstan, Doctor of Ph.D., Professor Smagulov Sh.S.;

- No. 422 lecture hall;

- No.511 computer class;

- No.509 educational and creative audience for students and undergraduates;

- al-Farabi library: subscription, classical reading room, electronic hall, dissertation hall, self-service terminal;

- student service center "Keremet".

At the meetings of the EEC IAAR with the university's target groups, the mechanisms for implementing the university's policy were clarified and the specification of individual data presented in the university self-assessment report was carried out.

EEC members visited the practice bases of accredited programs: Al-Farabi Kazakh National University, Faculty of Mechanics and Mathematics, Department of Computational Sciences and Statistics.

In accordance with the accreditation procedure, a survey of teachers and students was conducted.

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

As part of the planned program, recommendations for improving accredited educational programs of the Al-Farabi Kazakh National University, developed by the EEC based on the results of the examination, were presented at a meeting with the leadership on 05/17/2023.

## VI. COMPLIANCE WITH SPECIALIZED ACCREDITATION STANDARDS

### 6.1. The standard "Educational Program Management"

#### The evidentiary part

Accredited EP 6B05401 Actuarial Mathematics, 7M05401 Actuarial Mathematics are based on the provisions reflected in the University's development strategy, its mission, the strategic plan of the Ministry of Education and Science of the Republic of Kazakhstan for 2020-2025 and on the concept of science development in the context of new directions defined in the Strategy "Kazakhstan-2050".

All educational activities are based on the principle of "result-oriented management".

The structure and content of EP 6B05401 – "Actuarial Mathematics", 7M05401 – "Actuarial Mathematics" correspond to the strategic goals and objectives of the University for 2020-2025.

EP are developed in the areas of personnel training in accordance with the State mandatory standard of higher and postgraduate education. All EP pass external examination and are included in the national Register of educational programs.

The quality of the programs is ensured as follows:

- development of an EP based on a competence-based approach;
- development of an EP taking into account the wishes of employers;
- monitoring of foreign EP and accounting of the most frequent, popular disciplines (General insurance: pricing, reservation and reinsurance; Life insurance);
- determination of the consumer of educational services, etc.

The necessary information, personnel, financial and logistical resources are available for the management of the EP, as well as regulatory and legal documentation that ensure the implementation of the EP.

The management of the EP involves representatives of employers, teaching staff and students to determine the directions of development of the EP and their management.

The mechanism of formation of the EP plan consists of the following stages:

- when meeting with parents, graduates and employers, the need for an EP and its specialization is determined;
- the level of satisfaction of employers and graduates of the EP and its specialization is determined;
- as a result of such control of the EP, its strengths and weaknesses are identified, adjustments are made to the EP to optimize it;
- the adjusted EP plan is discussed at a meeting of the department and agreed with employers and the University's UMK.

Al-Farabi Kazakh National University has a published Quality Policy, in which the interaction between teaching, research and training, as well as interaction with employers in accordance with the strategic goals and objectives of the quality policy play a key role.

All interested parties have the opportunity to influence the content of the EP development plan.

The personnel and material and technical equipment prove that the Department of Computational Sciences and Statistics, the Department of Mathematics have all the possibilities for the implementation and further improvement of accredited EP.

For training in EP 6B05401 Actuarial Mathematics, 7M05401 Actuarial Mathematics, an accessible educational resource environment has been created, including computer equipment, educational and scientific laboratories, computer classes, reading rooms, book collection, etc.

### **Analytical part**

Having held meetings, conversations and interviews with the rector, vice-rectors, deans of faculties, heads of departments, heads of structural divisions, students, teaching staff, representatives of employers' organizations and graduates, as well as conducting questionnaires of teaching staff and students, detailed familiarization of experts with the educational infrastructure of the university, material, technical and information-methodological resources and necessary documents notes the following.

The University has a published Quality Policy in which the interaction between teaching, research and training plays a key role. This is evidenced by the fact that the approved copy of the quality policy is posted on the website of the Al-Farabi Kazakh National University, i.e. in an

accessible place to ensure familiarity with the documents of all teaching staff, employees and students, as well as employers and other interested persons.

The management of the EP ensures transparency and collegiality of the development of the EP development plan and its focus on meeting the needs of the state, employers, stakeholders and students. The management of the EP involves employers, students and teaching staff in the formation of a development plan for the EP.

Despite the fact that the management of the EP demonstrated the functioning of the internal quality assurance system of the EP, nevertheless, the commission came to the conclusion that it is necessary in the planning and reporting documents to ensure the definition and management of the risks of the EP within the university risk management system.

***The survey of the teaching staff conducted during the visit of the EEC IAAR showed that***

- participation in management decision-making: fully satisfied – 74.1%; partially satisfied – 25.9%.

***Strengths/Best practice***

None

***EEC Recommendations***

- the management of the EP until 31.08.2023 in planning and reporting documents to ensure the definition and management of EP risks within the university risk management system.

***Conclusions of the EEC according to the standard "Management of the educational program". EP 6B05401 Actuarial Mathematics, 7M05401 Actuarial Mathematics have strong – 0, satisfactory – 16, suggesting improvement – 1.***

***6.2.The standard “Information Management and Reporting”***

**The evidentiary part**

The system of information collection, analysis and management is carried out through its own corporate information system (CIS). On the basis of this system, various types of electronic services are provided: more than 20 automated workstations with flexibly configurable functions, electronic educational document management, monitoring, control and analysis of the educational process, submission of electronic applications on the principle of "one window, one registration" for students, general information services.

The following business management processes have been digitized as part of the CIS:

- university (administrative and managerial activities);
- educational and methodological activities;
- educational process;
- research activities;
- electronic educational resources;
- financial and economic activity;
- social and educational activities.

The main tool is the official website page of the Al-Farabi Kazakh National University [www.kaznu.kz](http://www.kaznu.kz) .

The collection and analysis of information is carried out in an interactive mode, which allows management to obtain up-to-date and accurate data, monitor and monitor current activities, analyze information and make decisions promptly. To collect, analyze and manage

information, the information and software complex "Univer", the mobile application "Univer", the information and analytical system "Science", the project designer "e-services", the system of indicative planning and rating activities of the University are used.

In accordance with the regulations on information security, the University has defined the procedure for ensuring the protection of information and responsible persons for the reliability and timeliness of information analysis and data provision.

The information security system provides for data processing:

- clustering of server infrastructure based on virtualization and cloud technologies;
- modernization of computing resources of computer classes based on modern cloud technologies;

- modernization of technical and technological equipment of the classroom fund;

- corporate centralized corridor printing system online/offline;

- situational monitoring center (intelligent video surveillance and access control system);

- online video conferencing, distance learning systems, Global-classroom.

Backup of the university's websites is carried out once a week.

Satisfaction with the quality of educational programs, disciplines, courses is assessed by means of a survey and questionnaire of all consumers, stakeholders. The survey is conducted by the Center for Sociological Research of Al-Farabi Kazakh National University in an interactive mode and in an online format. The results of the survey are regularly discussed at the meeting of the Rector's Office and the Academic Council of the University, at the meetings of the Dean's Office and departments. Based on the analysis, appropriate decisions are made to ensure the quality of educational programs and educational activities.

One of the methods of analysis is the rating of teaching staff, departments and faculties. The electronic form of the indicative plan is available in the IS "Univer" – subsystem "Indicative planning". Performers are personally responsible for providing information in indicative plans. Assessment of the level of achievement of the indicative plan is one of the points of the rating questionnaire, which allows evaluating the activities of the teacher, department and faculty.

Within the framework of EP 6B05401 Actuarial Mathematics, 7M05401 Actuarial Mathematics, there is a system of regular reporting, which includes the effectiveness and efficiency of the department and its evaluation at the university level. The department prepares annual reports covering all areas of its work: educational, methodological, research, social and educational activities. The reports are signed by responsible persons and filed in special folders according to the QMS. The structure of the reports is determined by the forms approved by the relevant documented procedures. The frequency, forms and methods of assessing the management of the EP, as well as the planning and organization of the educational process are fully reflected in the document Academic Policy of the Al-Farabi Kazakh National University

### **Analytical part**

The analysis of accredited EP according to this standard allows us to draw the following conclusions.

1. The university has a system for collecting, analyzing and managing information based on the use of ICT and monitoring student recruitment, academic performance, contingent movement, personnel, academic mobility of teaching staff, students, etc., which is presented in regular reports at a meeting of departments, the Rector's Office and the Academic Council of the University.

2. The management of the EP demonstrated ensuring the protection of information, including the identification of responsible persons for the reliability and timeliness of the analysis of information and the provision of data.

3. The information collected and analyzed by the university within the framework of the EP takes into account the availability of educational resources and support systems for students.

This is evidenced by the creation of the official website of the university, the submission of electronic applications on the principle of "one window, one registration" for students, which serve as a link between all participants in the educational process and are tools for collecting and providing students with relevant knowledge in real time.

4. The members of the EEC note that all categories of stakeholders are involved in the process of collecting and analyzing information, as well as making decisions based on them: students, employers, teaching staff and staff.

5. The survey of students conducted during the visit of the EEC IAAR showed that satisfaction with:

- the usefulness of the website of the organization of education in general and faculties in particular: fully satisfied and partially satisfied – 95.6%;

- informing students about courses, educational programs and academic degrees: fully satisfied and partially satisfied – 94.5%;

- informing the requirements that must be met for the successful completion of this educational program (specialty): fully satisfied and partially satisfied – 95.6%.

***Strengths/Best practice***

None

***EEC Recommendations***

No

***Conclusions of the EEC according to the standard "Information Management and reporting". EP 6B05401 Actuarial Mathematics, 7M05401 Actuarial Mathematics have strong – 0, satisfactory – 17, suggesting improvement – 0.***

***6.3. The standard "Development and approval of the educational program"***

**The evidentiary part**

The Al-Farabi Kazakh National University has defined and documented procedures for the development of EP and their approval at the institutional level. The order of organization of the educational process of the University according to the programs of higher and postgraduate education, as well as the procedure for the development and evaluation of the quality of education is reflected in the "Academic Policy" developed by the Department of Academic Affairs and approved by the Academic Council of Al-Farabi Kazakh National University and the "Regulations on the organization of the educational process at Al-Farabi Kazakh National University" dated 21.01.2019 G. These documents define the main provisions of the development of the EP, the requirements for the structure and content of educational programs.

EP are developed on the principle of modular training.

EP 6B05401 Actuarial Mathematics, 7M054010 Actuarial Mathematics have passed an external examination in accordance with the established procedure and are included in the National Register of Educational Programs, have a single approval procedure, including their sequential consideration:

- decision of the faculty quality committee;
- decision of the Academic Council of the faculty;
- coordination of the university's educational program design office;
- approval by the Department of Academic Affairs;

- approval by the Academic Council of the University.

Basic principles of the development of EP 6B05401 Actuarial Mathematics, 7M05401 Actuarial Mathematics:

- orientation to global trends in the development of postgraduate education;
- focus on national trends;
- compliance with the strategic priorities of the Al-Frabi KazNU.

Interested persons – employers participated in the development of the content and approval of EP 6B05401 Actuarial Mathematics, 7M05401 Actuarial mathematics: KazNU, educational centers, Republican Physics and Mathematics School, National Bank of the Republic of Kazakhstan, joint Stock Company "Insurance Company "London-Almaty", JSC "Insurance Company "Halyk-Life", LLC "Actuarial Consultant", JSC "CSJ "FreedomFinanceLife".

At the design stage, the results of the survey of students and graduates are taken into account. The developed graduate model is coordinated with employers and representatives of business structures.

At the stage of the implementation of the EP, the university conducts systematic monitoring, evaluation of the quality of the EP with the participation of students, employees and other interested parties.

At the request of potential employers, the following disciplines are included in the MOS:

- for EP 6B05401 Actuarial mathematics: Actuarial calculations in group insurance, Mathematical Demography;
- for EP 7M05401 Actuarial Mathematics: Fundamentals of Actuarial Modeling, Nonparametric Regression, Applied Statistics.

The EP Passport and other documents developed by the university define the goals of the EP, their specifics and level, the logic of drawing up curricula and programs, academic interrelation, sequence and continuity of disciplines, post- and prerequisites. During the development of the EP, the main attention is paid to the close relationship of the disciplines formed by professional competencies, the logic of following the disciplines and the planned learning outcomes.

### **Analytical part**

The analysis of accredited EP according to this standard allows us to draw the following conclusions.

1. The university documents the procedures for the development of EP and their approval at the institutional level. This is evidenced by the fact that the Al-Farabi Kazakh National University has developed documents regulating the procedures for the development, evaluation, annual revision of the EP, taking into account changes in the labor market, the wishes of employers, students and teachers. Teaching staff, employers and students are involved in the development of educational programs. To ensure the quality of the EP, they are also submitted for consideration by collegial bodies and independent review.

2. The members of the EEC note that the accredited EP provides components for preparing students for future professional activity, developing key competencies, intellectual and academic skills.

3. The management of the EP presented evidence of the participation of students, teaching staff and other stakeholders in the development of the EP. Employers (insurance and financial organizations, pension funds, etc.), students and teaching staff who are members of collegial bodies take part in the development of the EP.

4. Experts note that the management of accredited educational institutions should consider the possibility of developing joint or double-degree educational programs with domestic and foreign educational organizations.

5. The survey of students conducted during the visit of the EEC IAAR showed that:

- the level of accessibility and responsiveness of the university management: fully satisfied and partially satisfied – 91.2 %;
- availability for academic counseling: fully satisfied and partially satisfied – 92.3%.

***Strengths/Best practice***

None

***EEC Recommendations***

- the management of accredited educational institutions during the 2023-2024 academic year to consider the possibility of developing joint or double-degree educational programs with domestic and foreign educational organizations..

***Conclusions of the EEC according to the standard "Development and approval of the educational program". EP 6B05401 Actuarial Mathematics, 7M05401 Actuarial Mathematics have strong – 0, satisfactory – II, suggesting improvement – I.***

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

**The evidentiary part**

EP 6B05401 Actuarial Mathematics, 7M05401 Actuarial Mathematics are developed in accordance with the National Qualifications Framework, Professional Standards, Dublin Descriptors and the European Qualifications Framework. All stakeholders, including students and employers, are involved in the process of developing the EP and monitoring educational activities within the framework of the EP.

In order to control the quality of the development of the EP, it undergoes an evaluation procedure within the university and is sent for external examination to representatives of employers, the public and the academic environment.

On the basis of the department, a working group is being created to develop an EP, where coordinators are appointed, which are approved by the decision of the Academic Council of the faculty. The coordinators, as responsible persons, hold a meeting of the group at the beginning of the spring semester of the academic year with the participation of internal and external stakeholders and make decisions on the revision of the EP based on the approved composition of the author's teams by levels of study. The coordinators organize the work on the design, development and implementation of the EP, focused on achieving learning outcomes in accordance with the qualification requirements, with the involvement of all interested parties. In addition, the labor market and its conditions are analyzed, which are revealed during conversations with stakeholders, graduates.

EP coordinators monitor and periodically evaluate programs in order to ensure that they achieve their goals and meet the needs of students and society. The results of these processes lead to continuous improvement of programs.

Monitoring and periodic evaluation of the EP includes evaluation according to the following criteria:

- the content of programs in the light of the latest achievements of actuarial science in a particular discipline to ensure the relevance of the discipline taught;
- changing needs of society;
- workload, academic performance and graduation of bachelors/undergraduates;
- effectiveness of bachelor's/master's degree assessment procedures;

- expectations, needs and satisfaction of bachelors/undergraduates with the training program;
- educational environment and support services and their compliance with the objectives of the program.

The results of monitoring are recorded in the Dean's Office and the Department of Academic Affairs of the University.

The university has an automated system "Univer", which provides accounting and registration of students' achievements, as well as their active participation in research work and possession of programs used in the educational process and research activities.

EP 6B05401 Actuarial Mathematics, 7M05401 Actuarial Mathematics are focused on training creative graduates, multilingual, mobile, independent, possessing digital skills.

### **Analytical part**

The analysis of accredited EP according to this standard allows us to draw the following conclusions.

1. The university conducts monitoring and periodic evaluation of the EP in order to ensure the achievement of the goal and meet the needs of students and society. This is evidenced by the fact that the EP is regularly updated not only structurally, but also meaningfully, while the requirements of the labor market, employers, students and teaching staff are taken into account when developing elective courses, developing the content of the professional practice program and choosing the topics of graduation papers.

2. Accredited educational institutions train bachelors and masters taking into account the generalization of modern domestic and international experience of training in this area, author's and collective scientific and educational achievements, employers' requirements, labor market demands and the development of state programs of the Republic of Kazakhstan. Experts note that the revision of the content of the EP and QED takes place annually, taking into account the requirements of the market and the wishes of students and employers.

3. The university has an automated system "Univer" (<http://univer.kaznu.kz>), which provides accounting and registration of students' achievements.

4. The university has an official website. The analysis of the information presented on the university's website showed that the results of the university's activities are not fully reflected on the university's website. At the same time, the EEC notes insufficient coverage of the results of academic mobility on the university's website and, in general, information about changes in accredited EP is not fully published. This problem should have a systematic solution.

5. A survey of students conducted during the visit of the EEC IAAR showed that students assess the overall quality of educational programs as fully satisfied and partially satisfied – 93.4%.

### ***Strengths/Best practice***

None

### ***EEC Recommendations***

- the management of the EP until 31.08.2023 and further on an ongoing basis to determine the mechanism for informing all interested parties and to ensure the publication on the university's website of information about the changes of the EP.

***Conclusions of the EEC according to the standard "Continuous monitoring and periodic evaluation of educational programs". EP 6B05401 Actuarial Mathematics, 7M05401 Actuarial Mathematics have strong – 0, satisfactory – 9, suggesting improvement – 1.***



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

#### **The evidentiary part**

The academic policy of Al-Farabi Kazakh National University is aimed at providing comprehensive support to students when studying under the programs of higher and postgraduate education.

The emphasis of the Department of Computational Sciences and Statistics in the organization of the educational process is increasingly shifting towards active didactic management and control of learning, evaluation of the quality of independent work of students and undergraduates, which corresponds to student-centered education.

Students of EP 6B05401 – "Actuarial Mathematics" and undergraduates of EP 7M05401 – "Actuarial Mathematics" determine the content of educational programs, independently form educational trajectories, have the right to choose a teacher, evaluate the level of teaching effectiveness, evaluate the professional qualities of teaching staff, the level of material and technical support of the educational process and the infrastructure of the university campus.

Registration for academic disciplines is carried out in the Univer system in online mode within the time limits set by the academic calendar, in accordance with the registration schedule.

In order to facilitate the effective functioning of the credit system of education at the university, there is a Student Bureau for the Bologna Process. It was created taking into account the experience and traditions of the European Union of Students with the aim of greater involvement of students in the organization of the educational process.

In order to implement student-oriented teaching, the teaching staff strives for continuous improvement of teaching methods. Cathedral discussions of modern methods and technologies of the educational process are held on an ongoing basis. Ensuring the modern quality of education on the basis of preserving its fundamental nature and compliance with the current and future needs of the individual, society and the state is the main task of the department's educational policy. The following active forms of lectures and practical classes have become traditional: problem lectures, business games, control and training programs, master classes, teamwork, etc.

The LMS Moodle, Open KazNU distance education management system is widely used.

For example, Associate Professor of the Department, Ph.D. I.M. Kovaleva, within the framework of the discipline "Probability Theory and Mathematical Statistics", was one of the first to introduce mixed learning, integrating the author's MOOC "Probability Theory" into the educational process [https://open.kaznu.kz/courses/course-v1:KazNU+MM01+2022-2023\\_C1/course/](https://open.kaznu.kz/courses/course-v1:KazNU+MM01+2022-2023_C1/course/).

The survey "Teacher through the eyes of students" is conducted twice a year. For the survey, a questionnaire is used that takes into account the opinion of students both about the quality of educational programs and about conducting classes in individual disciplines.

According to the "Academic Policy of Al-Farabi Kazakh National University", "Regulations on the types and forms of control of educational achievements of students at Al-Farabi Kazakh National University", "Regulations on final certification at Al-Farabi Kazakh National University", the following types of control of students' knowledge are provided for checking the educational achievements of students: current control; boundary control; final control (final exam). All types of control involve assessing the formation of expected learning outcomes within a 100-point scale. The points for completing the tasks of the current control are distributed in the syllabus of the discipline by week in accordance with the number and degree of complexity of the tasks performed. Estimates of the current control are displayed in the log of visits in the "Univer" system.

**Analytical part**

During the visit, the EEC experts on this standard came to the following conclusions.

1. In general, the educational process at Al-Farabi Kazakh National University meets the standards of student-centered learning.

2. In order to improve the quality of training and instill professional competencies, the department is working to provide students with the opportunity to choose an individual learning trajectory with the right to choose disciplines, which was confirmed by the students during the interview.

3. During the visit of the EEC, it was noted that teaching staff use various methods of teaching and learning aimed at students using modern interactive methods in combination with IT technologies.

4. The survey of students conducted during the visit of the EEC IAAR showed that students evaluate

- the objectivity of the assessment of knowledge, skills and other educational achievements as fully satisfied and partially satisfied – 95.6%;

- conducted tests and exams are both fully satisfied and partially satisfied – 96.7%.

**Strengths/Best practice**

None

**Recommendations of the EEC**

no

*The conclusions of the EEC according to the standard "Student-centered learning, teaching and assessment of academic performance". EP 6B05401 Actuarial Mathematics, 7M05401 Actuarial Mathematics have strong – 0, satisfactory – 10, suggesting improvement – 0.*

**6.6. The standard " Students"****The evidentiary part**

Admission to bachelor's and master's degrees is carried out in accordance with the Standard Rules of Admission to educational organizations. Information about the rules for accepting documents and general requirements for applicants to bachelor's and master's degrees are available in advance on the official website of the university (<https://www.kaznu.kz/ru/21737/page/>). In the section "Bachelor's degree" and "Master's Degree" on the university's website, the entire list of necessary documents for participation in the competition for the award of state educational grants is presented. The formation of a contingent of undergraduate and graduate students is carried out by placing a state educational order for the training of scientific and pedagogical personnel, as well as paying for training at the expense of citizens' own funds and other sources.

The contingent of students is shown in Table 2.

Table 2. The contingent of students enrolled in accredited EP.

- Name and - code of the EP	- Contingent of students		
	- 2020-	- 2021-	- 2022-

		2021	2022	2023
- 6B05401 mathematics	Actuarial	- 14	- 53	- 115
- 7M05401 mathematics	Actuarial	- 7	- 4	- 3

The management of the EP provides for special programs for incoming and foreign students. The receipt of free postgraduate education by foreigners on a competitive basis in accordance with the state educational order is determined by international treaties of the Republic of Kazakhstan, with the exception of the scholarship program for master's degree programs. According to the academic policy of the university, the admission of foreign citizens for postgraduate education is carried out on the basis of contracts for the provision of paid educational services in accordance with the academic calendar.

At the beginning of the academic year, all students (including foreigners) get acquainted with the academic policy of the university.

3 students from China and 1 student from Uzbekistan continue their studies at the university according to EP 6B05401 Actuarial Mathematics. When submitting documents or when entering a university, the developers of the EP recognize qualifications awarded by other countries.

The University annually holds the International Scientific Conference of Young Scientists "The World of Farabi". Undergraduates and doctoral students take an active part in this conference, publish theses and make presentations at sections.

Students actively participate in the social life of the university. Annual events "Nauryz", "Unity Day of the People of Kazakhstan", "Open Doors Day", etc. are traditionally held with the active participation of students, undergraduates and faculty of the department.

Al-Farabi Kazakh National University annually monitors the employment of its graduates in the first year after graduation.

Since 2017, the university has switched to a new method of calculating the % of employed, proposed by NCE "Atameken": only the information of the State Pension Fund on the availability of contributions to the pension fund, taking into account those enrolled in the magistracy, is taken into account.

### **Analytical part**

The analysis of accredited EP according to this standard allows us to draw the following conclusions.

1. The university demonstrated the policy of forming a contingent of students in the context of the EP. This is evidenced by the fact that the current model of the formation of the contingent of students at the University complies with the legislation of the Republic of Kazakhstan. In order to increase the number of applications for admission from applicants, the university conducts active professional orientation work with school graduates.

2. The management of the EP demonstrated the implementation of special adaptation and support programs for newly enrolled and foreign students. Experts note that admission and enrollment to the EP are accompanied by an introductory course containing information about the university and the specifics of the EP. 1st year students get acquainted with the academic policy of the university, Foreign students, in addition to educational services, receive assistance and support in adapting to the new educational and socio-cultural environment.

3. Experts note that the university encourages students to self-education and development outside the main program (extracurricular activities). This is evidenced by the fact that students actively participate in the social life of the university ("Nauryz", "Unity Day of the People of Kazakhstan", "Open Doors Day", etc.) and take part in the scientific conference "Mir Farabi".

The sports complex of the university has sports clubs and sections, as well as basketball and football clubs. The departments and the faculty as a whole have a "Council of Young Scientists", "School of Young Teachers", etc.

4. The university provides students with an opportunity for academic mobility. However, it should be noted that academic mobility, both incoming and outgoing, is poorly implemented in accredited EP.

5. Al-Farabi Kazakh National University has an alumni association that monitors the labor market and cooperates with foreign universities. However, according to the EEC, the work of the association is not active and operates formally, which is confirmed by the results of the meeting with graduates.

6. The survey of students conducted during the visit of the EEC IAAR showed that students evaluate

- academic load/student requirements as fully satisfied and partially satisfied – 92.3%;
- equal opportunities are provided to all students as fully satisfied and partially satisfied – 97.8%.

#### ***Strengths / best practice***

- encouraging students to self-education and development outside the main program (extracurricular activities), namely, students actively participate in the social life of the university, take part in the annual scientific conference "Mir Farabi", etc.

#### ***Recommendations of the EEC***

- the management of the EP until 08/31/2023 to provide measures to expand the external and internal academic mobility of students in the context of the EP and begin its implementation (at least 2 students per academic year);
- in order to strengthen the interaction of graduates with the alumni Association, the university management should draw up a work plan for the alumni association, inform about the meetings of the association, post the results of the meetings on the official website – initially by October 1, 2023, then annually.

***Conclusions of the EEC according to the "Students" standard. EP 6B05401 Actuarial Mathematics, 7M05401 Actuarial Mathematics have strong – 1, satisfactory – 11, suggesting improvement – 0.***

### ***6.7. The standard "Teaching staff"***

#### **The evidentiary part**

Al-Farabi KazNU conducts a transparent and objective personnel policy. An annual competition is held to fill vacant positions of the teaching staff, on the basis of which an employment contract is concluded. When selecting employees, the needs of the EP are taken into account. In order to determine the level of professional training of employees, their certification is carried out.

Lectures and classes in the disciplines of EP 6B05401 Actuarial mathematics, 7M05401 Actuarial Mathematics are carried out by teachers who have basic education corresponding to the direction and specifics of EP and have a license for actuarial activities. Training in these EP is conducted by the Department of Computational Sciences and Statistics together with the Department of Mathematics and the Department of Mathematical and Computer Modeling.

The teaching staff of the Department of Computational Sciences and Statistics meets the qualification requirements for EP 6B05401 Actuarial Mathematics, 7M05401 Actuarial Mathematics. The department employs highly qualified teachers, including: 3 doctors of physical and mathematical sciences, 8 candidates of physical and mathematical sciences, 4 of them are associate professors, 4 PhD doctors. Teachers of the department Akanbay N., Shakenov K.K., Dairbaeva G.M., Temirbekov A.N. are the holders of the grant of the Ministry of Education and Science of the Republic of Kazakhstan "The best university teacher". The average age of the teaching staff is 51 years.

Teachers of the Departments of Computational Sciences and Statistics regularly undergo advanced training in IPKiDO of Al-Farabi Kazakh National University, according to the Bolashak program. For example, Zhanatbekkyzy Aidana completed the course (November 28th – December 30th, 2021) "Change Management: Educational Program Management, Innovative Approach to Teaching and Learning" Swiss School of Applied Sciences for Economics and Management Business School in the amount of 72 hours.

Teaching staff of the department are published in publications recommended by the KKSON of the Ministry of Education and Science of the Republic of Kazakhstan, indexed in the Scopus, Web of Sciences databases, are part of the editorial boards of foreign scientific publications. 13 teachers have a Hirsch index.

To implement the accredited EP, teachers of the practice were invited:

- G.M. Sikhova – licensed actuary, member of the Board of the NGO "Society of Actuaries of Kazakhstan", Chairman of the Education Committee, full member of the NGO "Society of Actuaries of Kazakhstan", (2020-2021 academic year):

- A. Beibitbekov – actuary of the Department of Analysis and Actuarial Calculations of JSC Insurance Company life "Nomad life", (2021-2022 academic year).

The university has a Mentoring Institute, the "School of a Young Teacher", in which leading scientists and teachers share their experience and conduct master classes for young teachers. Young teachers attend lectures of professors of the department. According to the plan, mutual attendance of classes is carried out.

### **Analytical part**

The analysis of accredited EP according to this standard allows us to draw the following conclusions.

1. The university has an objective and transparent personnel policy. Experts note that the staff of the teaching staff of the EP is staffed in accordance with the legislation of the Republic of Kazakhstan and the Rules of competitive replacement of positions of scientific and pedagogical personnel of higher educational institutions.

2. The management of the EP involves practitioners of relevant industries in teaching. This is evidenced by the invitation of G.M. Sikhova and A. Beibitbekov.

3. The EEC notes the high research and publication activity of the teaching staff. This is evidenced by the fact that 13 PPS have a Hirsch index.

4. During the visit, the EEC experts on this standard found that the department has a low level of academic mobility of teaching staff according to accredited EP.

5. According to the results of the survey, the teaching staff of accredited EP rated the opportunities provided by the university for the career growth of teachers as very good and good – 97.6%.

### ***Strengths/Best practice***

None

### ***Recommendations of the EEC***

- the management of the EP until 08/31/2023 to provide for measures to develop academic mobility of teaching staff of accredited EP and attract the best domestic and foreign teachers (at least 1 teaching staff per academic year).

***Conclusions of the EEC according to the standard "Teaching staff". EP 6B05401 Actuarial Mathematics, 7M05401 Actuarial Mathematics have strong – 0, satisfactory – 10, suggesting improvement – 0.***

### ***6.8. The standard "Educational resources and student support systems"***

#### **The evidentiary part**

The Al-Farabi Kazakh National University regularly improves material, technical and information resources, which are a decisive factor in ensuring the improvement of the quality of education and the implementation of EP 6B05401 - "Actuarial Mathematics", 7M05401 – "Actuarial Mathematics".

There are 10 computer classes for the development of accredited EP, the number of seats in which is 220. Accredited EP have a classroom fund consisting of 4 lecture halls and 29 auditoriums. The teaching staff of the departments is located in the offices: 506, 509, 423a, 423b. Classrooms and their equipment meet the objectives of the EP. The lecture halls of the faculty are equipped with modern technology: in specialized classrooms there are multimedia projectors, interactive whiteboards SMART Bord (324, 511, 424).

In computer classes, computers are equipped with the following programs: Microsoft Office, SPSS, Praat Visual Studio, C# Express Edition, Turbo Pascal, Delphi, Visual Basic, InterBase, Flash, AutoCAD, Dreamweaver, MySQL, ActivStudio, InterWrite.

Informatization of the university's work is one of the priority areas of development of Al-Farabi Kazakh National University. The University has its own WEB portal on the Internet, which provides access to the unified information and educational environment of the university, including both internal and external electronic resources.

The buildings and the territory of the university are guarded around the clock by a licensed security service. Entrance to the academic, administrative buildings and the building of dormitories is carried out by ID cards. Employees and students can leave their personal vehicles in secured parking lots. The university canteen is a student cafe "Cantin", with a total area of 442.2 m<sup>2</sup>.

In 2014, the International Kazakh-Korean Diagnostic Center was opened for medical examination of students and teaching staff of Al-Farabi Kazakh National University within the framework of the Basic Program:

- outpatient diagnostics;
- therapist;
- pediatrician;
- ophthalmologist;
- otorhinolaryngologist;
- neurologist;
- urologist;
- obstetrician-gynecologist;
- gastroenterologist, etc.

The total area is 976 m<sup>2</sup>. Students are served by a medical clinic located in the building of the Student Service Center "Keremet". There is a grocery store, a cinema, and a cafeteria in the building of the Keremet Data center. There is a dining room on the ground floor of GUK-11. There is a separate sports building for physical education, equipped with all sports equipment.

For physical training, sports and fitness at the Al-Farabi Kazakh National University, undergraduates and doctoral students are provided with a gym, a football field, a ski base, an outdoor sports ground for playing volleyball, basketball, lawn tennis, which are part of the sports and recreation complex of the university.

Al-Farabi Kazakh National University has signed more than 250 journals in the fields of science and more than 40 newspapers in Kazakh and Russian. The library has a hall of electronic resources, which has free access to Internet resources for all students.

To date, wireless points with an intelligent access control system and Internet traffic administration have been installed on the University's territory, which provide 100% wireless Internet connection coverage of the interior premises in students' homes on campus, mass attendance areas in academic buildings, conference halls in academic buildings, the KazNU Scientific Library, a Service Center students, the central alley on campus. Access to the corporate Wi-Fi network is provided to students, staff and guests of the University.

### **Analytical part**

As a result of a visual inspection by the members of the EEC of the facilities of the material base, the following was noted:

1. The management of the EP demonstrated the sufficiency of material and technical resources and infrastructure. This is evidenced by the fact that the buildings and structures of the university comply with current sanitary standards and fire safety requirements, classroom and laboratory facilities, classrooms and other premises, sports facilities comply with established norms and rules.

2. The management of the EP demonstrated compliance of information resources with the specifics of the EP. Experts note the presence of laboratories equipped with equipment and software products of well-known companies that meet modern requirements for information security and IT technologies.

3. The management of the EP gives students the opportunity to additionally engage in physical culture and fitness.

4. The members of the EEC note that the management of the EP should strive to take into account the needs of various groups of students in the context of the EP. In this regard, it is necessary to create conditions for students with special educational needs.

5. The survey of students conducted during the visit of the EEC IAAR showed that satisfaction with:

- the availability of library resources is – 100%;
- existing educational resources of the university – 97.8%;
- availability and accessibility of computer classes and Internet resources – 87.9%;
- classrooms, classrooms for large groups – 93.4%;
- rest rooms for students – 68.2%;
- available scientific laboratories – 86.8%;
- providing students with a dormitory – 81.4%.

### ***Strengths/Best practice***

None

### ***Recommendations of the EEC***

- during the 2023-2024 academic year, the university management will develop a procedure for determining the needs of various groups of students (adults, working, foreign students, as well as students with special educational needs) and create the necessary conditions taking into account their needs.

*Conclusions of the EEC according to the standard "Educational resources and student support systems". EP 6B05401 Actuarial Mathematics, 7M05401 Actuarial Mathematics have strong – 0, satisfactory – 12, suggesting improvement – 1.*

### **6.9. The standard "Informing the public"**

#### **The evidentiary part**

Informing the public is carried out through the electronic portal of the university, social networks, news portals of news agencies of Kazakhstan and the region and directly when stakeholders contact the structural units of the university. Information about the implemented EP, teaching staff, expected learning outcomes and possible employment is available on the website [www.kaznu.kz](http://www.kaznu.kz). The publications actively cover such issues as the implementation of state programs, the achievements of the university, teaching staff and students, undergraduates, doctoral students, information support is provided for the activities of departments, faculty, etc. Events held at the university are announced in advance, materials are published based on the results of meetings, round tables, etc. The procedure for publishing about the university's activities in the state, Russian and English languages on regional and republican TV channels, radio, newspapers, news portals, and the official website has been determined [www.kaznu.kz](http://www.kaznu.kz) and social networks.

Al-Farabi KazNU works for regional and international image and occupies the 150th position in the QS rating.

On the basis of KazNU named after Al-Farabi there is a TV and radio complex named after M.Barmankulov, a student channel "Al-Farabi", radio "Al-Farabi", a photo laboratory.

The university publishes a corporate newspaper "Kazakh University", an educational magazine "Al-Farabi", "Bulletin of KazNU", which is published at 16 faculties with a frequency of 4 times a year. The journal is indexed by the Kazakhstan Citation Database (KazBC) of JSC "National Center for State Scientific and Technical Expertise" (NCGNTE). The journal is published in the Scientific Electronic Library [e-library.ru](http://e-library.ru) in open access for readers and included in the analytical database "Russian Science Citation Index" (RSCI). Journal articles are registered in the CrossRef database and each author's article is necessarily assigned a DOI – a digital identifier of the object, which is used to provide citations, links and access to electronic documents.

On the website of KazNU named after Al-Farabi on the page of each department there is a section of teaching staff <https://pps.kaznu.kz/2/Main/Chair/>; 127. This section contains information about the teachers of the department on various points.

#### **Analytical part**

The analysis of accredited EP according to this standard allows us to draw the following conclusions.

- 1. Information about the activities of Al-Farabi Kazakh National University and the implementation of accredited EP is published on the university's website and on social networks. At the same time, the information on the website does not fully reflect the results of the university's activities, some sections contain outdated and incomplete information. In this regard, the management of the EP should regularly update the information on the official website of the Al-Farabi Kazakh National University within the framework of the EP.

- 2. The management of the EP uses a variety of ways to disseminate information to inform the general public and interested persons.

- 3. Public awareness provides support and explanation of the national development programs of the country and the system of higher and postgraduate education. In fact, the



university provides an active media presence in the region, takes part in explaining the state programs and achievements of the university.

- 4. An important factor is the participation of the university and the implemented EP in a variety of external evaluation procedures. The proof is that the university occupies the 150th position in the QS ranking.

***Strengths/Best practice***

None

***EEC Recommendations***

- the management of the EP to ensure the updating of the university's website by 31.08.2023 and to post up-to-date and complete information about the university's activities within the framework of the EP.

***Conclusions of the EEC according to the standard "Informing the public". EP 6B05401 Actuarial Mathematics, 7M05401 Actuarial Mathematics have strong – 0, satisfactory – 11, suggesting improvement – 1.***

## **VII. OVERVIEW OF STRENGTHS/BEST PRACTICES FOR EACH STANDARD**

***The standard "Students"***

is to encourage students to self-education and development outside the main program (extracurricular activities).

## **VIII. OVERVIEW RECOMMENDATIONS FOR QUALITY IMPROVEMENT**

***The standard "Management of the educational program"***

- the management of the EP until 31.08.2023 in the planning and reporting documents to ensure the definition and management of the risks of the EP within the university risk management system.

***The standard "Development and approval of the educational program"***

- the management of accredited educational institutions during the 2023-2024 academic year to consider the possibility of developing joint or double-degree educational programs with domestic and foreign educational organizations.

***The standard "Continuous monitoring and periodic evaluation of the educational program"***

- the management of the EP until 08/31/2023 and further on an ongoing basis to determine the mechanism for informing all interested parties and to ensure publication on the university's website of information about changes in the EP.

***The standard "Students"***

- the management of the EP until 08/31/2023 to provide measures to expand the external and internal academic mobility of students in the context of the EP and begin its implementation (at least 2 students per academic year);

- in order to strengthen the interaction of graduates with the alumni Association, the university management should draw up a work plan for the alumni association, inform about the meetings of the association, post the results of the meetings on the official website – initially by October 1, 2023, then annually.

***The standard "Teaching staff"***

the management of the EP until 08/31/2023 to provide for measures to develop academic mobility of teaching staff of accredited EP and attract the best domestic and foreign teachers (at least 1 teaching staff per academic year).

***The standard "Educational Resources and Student Support Systems"***

the university management during the 2023-2024 academic year to develop a procedure for determining the needs of various groups of students (adults, working, foreign students, as well as students with special educational needs) and create the necessary conditions taking into account their needs.

***The standard "Informing the public"***

is for the management of the University to update the university's website by 31.08.2023 and post up-to-date and complete information about the university's activities within the framework of the EP.

**IX. RECOMMENDATIONS TO THE ACCREDITATION COUNCIL**

The members of the EEC came to the unanimous opinion that EP 6B05401 Actuarial Mathematics, 7M05401 Actuarial Mathematics, implemented by Al-Farabi Kazakh National University, can be accredited for a period of 5 (five) years.

## APPENDIX 1. SOFTWARE PARAMETERS OF A SPECIALIZED PROFILE

Parameters for specialized accreditation EP 6B05401 Actuarial Mathematics, 7M05401 Actuarial Mathematics

p\p	p\p	Evaluation criteria	The position of the organization of education			
			Strong	Satisfactory	Suggests - impro	Unsatisfactory
<b>The standard "Educational Program Management"</b>						
1		The university should demonstrate the development of a goal and strategy for the development of the EP based on the analysis of external and internal factors with the broad involvement of a variety of stakeholders		+		
2		The quality assurance policy should reflect the relationship between research, teaching and learning		+		
3		The university demonstrates the development of a culture of quality assurance		+		
4		Commitment to quality assurance should apply to any activity performed by contractors and partners (outsourcing), including the implementation of joint/double-degree education and academic mobility		+		
5		The management of the EP ensures transparency in the development of the EP development plan based on an analysis of its functioning, the real positioning of the university and the orientation of its activities to meet the needs of students, the state, employers and other interested parties		+		
6		The management of the EP demonstrates the functioning of mechanisms for the formation and regular revision of the development plan of the EP and monitoring its implementation, assessing the achievement of training goals, meeting the needs of students, employers and society, making decisions aimed at continuous improvement of the EP		+		
7		The management of the EP should involve representatives of groups of interested persons, including employers, students and teaching staff in the formation of the development plan of the EP		+		
8		The management of the EP should demonstrate the individuality and uniqueness of the development plan of the EP, its consistency with national development priorities and the development strategy of the educational organization		+		
9		The university must demonstrate a clear definition of those responsible for business processes within the framework of the EP, the distribution of staff duties, the differentiation of functions of collegial bodies		+		
10		The management of the EP ensures coordination of the activities of all persons involved in the development and management of the EP, and its continuous implementation, as well as involves all stakeholders in this process		+		
11		The management of the EP should ensure the transparency of the management system, the functioning of the internal quality assurance system, including its design, management and monitoring, and the adoption of appropriate decisions		+		
12		The management of the EP should carry out risk management			+	
13		The management of the EP should ensure the participation of		+		

		representatives of interested persons (employers, teaching staff, students) in the collegial management bodies of the educational program, as well as their representativeness in making decisions on the management of the educational program				
14		The university must demonstrate innovation management within the framework of the EP, including the analysis and implementation of innovative proposals		+		
15		The management of the EP should demonstrate its openness and accessibility to students, teaching staff, employers and other interested persons		+		
16		The management of the EP confirms the completion of training in educational management programs		+		
17		The management of the EP should strive to ensure that the progress made since the last external quality assurance procedure is taken into account when preparing for the next procedure		+		
Total according to the standard				16	1	
<b>The standard «Information Management and Reporting»</b>						
18		The university should ensure the functioning of the information collection, analysis and management system based on modern information and communication technologies and software		+		
19		The EP management demonstrates the systematic use of processed, adequate information to improve the internal quality assurance system		+		
20		The management of the EP demonstrates the existence of a reporting system reflecting the activities of all structural divisions and departments within the framework of the EP, including an assessment of their effectiveness		+		
21		The university should determine the frequency, forms and methods of evaluation of the management of the EP, the activities of collegial bodies and structural units, senior management		+		
22		The university must demonstrate a mechanism for ensuring the protection of information, including the identification of responsible persons for the accuracy and timeliness of information analysis and data provision		+		
23		The university demonstrates the involvement of students, employees and teaching staff in the processes of collecting and analyzing information, as well as making decisions based on them		+		
24		The management of the EP should demonstrate the availability of communication mechanisms with students, employees and other stakeholders, including conflict resolution		+		
25		The university must ensure the measurement of the degree of satisfaction of the needs of students, teaching staff and staff within the framework of the EP and demonstrate evidence of the elimination of the detected shortcomings		+		
26		The university should evaluate the effectiveness and efficiency of its activities in the context of EP		+		
		The information collected and analyzed by the university within the framework of the EP should take into account:				
27	10.	key performance indicators		+		
28	11.	dynamics of the contingent of students in the context of forms and types		+		
29	12.	academic performance, student achievements and expulsion		+		
30	13.	satisfaction of students with the implementation of the EP and the quality of education at the university		+		
31	14.	availability of educational resources and support systems for students		+		

32	15.	employment and career growth of graduates		+		
33	16.	Students, teaching staff and staff must document their consent to the processing of personal data		+		
34	17.	The management of the EP should help to provide the necessary information in the relevant fields of science		+		
Total according to the standard			0	17	0	
<b>The standard "Development and approval of the educational program"</b>						
35		The university must demonstrate the existence of a documented procedure for the development of an EP and its approval at the institutional level				
36		The university must demonstrate compliance of the developed EP with the established goals and planned learning outcomes				
37		The management of the EP should determine the influence of disciplines and professional practices on the formation of learning outcomes				
38		The university demonstrates the existence of a graduate model of an EP describing learning outcomes and personal qualities				
39		The qualification assigned upon completion of the EP must be clearly defined, explained and correspond to a certain level of the NSC, QF-EHEA				
40		The management of the EP should demonstrate the modular structure of the program based on ECTS, ensure that the structure of the content of the EP meets the set goals with a focus on achieving the planned learning outcomes for each graduate				
41		The management of the EP should ensure that the content of academic disciplines and learning outcomes correspond to each other and the level of study (bachelor's, master's, doctoral)				
42		The management of the EP must demonstrate the conduct of external examinations of the EP				
43		The management of the EP must provide evidence of the participation of students, teaching staff and other stakeholders in the development and quality assurance of the EP				
44		The management of the EP should demonstrate the uniqueness of the educational program, its positioning in the educational market (regional/national/international)				
45		An important factor is the possibility of preparing students for professional certification				
46		An important factor is the presence of joint(s) and/or double-degree EP with foreign universities				
Total according to the standard			0	11	1	
<b>The standard "Continuous monitoring and periodic evaluation of the educational program"</b>						
47		The university should ensure the revision of the structure and content of the EP, taking into account changes in the labor market, the requirements of employers and the social request of society		+		
48		The university must demonstrate the existence of a documented procedure for monitoring and periodic evaluation to achieve the goal of the EP and continuous improvement of the EP		+		

		Monitoring and periodic evaluation of the EP should consider:				
49		the content of the program in the context of the latest achievements of science and technology in a particular discipline		+		
50		changes in the needs of society and the professional environment		+		
51		workload, academic performance and graduation of students		+		
52		effectiveness of student assessment procedures		+		
53		needs and degree of satisfaction of students		+		
54		compliance of the educational environment and the activities of support services with the goals of the EP		+		
55		The management of the EP should publish information about the changes in the EP, inform interested parties about any planned or taken actions within the framework of the EP			+	
56		Support services should identify the needs of various groups of students and the degree of their satisfaction with the organization of training, teaching, evaluation, and mastering of the EP in general		+		
Total according to the standard			0	9	1	
<b>The standard "Student-centered learning, teaching and assessment of academic performance"</b>						
57		The management of the EP should ensure respect and attention to different groups of students and their needs, providing them with flexible learning paths		+		
58		The management of the EP should provide teaching on the basis of modern achievements of world science and practice in the field of training, the use of various modern teaching methods and evaluation of learning outcomes that ensure the achievement of the goals of the EP, including competencies, skills to perform scientific work at the required level		+		
59		The management of the EP should determine the mechanisms for distributing the educational load of students between theory and practice within the framework of the EP, ensuring the development of the content and achievement of the goals of the EP by each graduate		+		
60		An important factor is the availability of own research in the field of teaching methods of the disciplines of the EP		+		
61		The university must ensure that the procedures for evaluating learning outcomes correspond to the planned results and goals of the EP		+		
62		The university must ensure the consistency, transparency and objectivity of the mechanism for evaluating the results of training of the EP, the publication of criteria and methods for evaluating the results of training in advance				
63		Evaluators should be familiar with modern methods of evaluating learning outcomes and regularly improve their skills in this area		+		
64		The management of the EP should demonstrate the existence of a feedback system for the use of various teaching methods and evaluation of learning outcomes		+		
65		The management of the EP should demonstrate support for the autonomy of students with simultaneous guidance and assistance from the teacher		+		
66		The management of the EP must demonstrate the existence of a procedure for responding to complaints from students		+		

Total according to the standard			0	10	0	
<b>The standard "Students"</b>						
67		The university must demonstrate the policy of forming a contingent of students and ensure transparency, publication of procedures regulating the life cycle of students (from admission to completion)		+		
68		The management of the EP should provide for special adaptation and support programs for newly enrolled and foreign students		+		
69		The university must demonstrate compliance of its actions with the Lisbon Recognition Convention, including the existence and application of a mechanism for recognizing the results of academic mobility of students, as well as the results of additional, formal and non-formal education		+		
70		The university should provide an opportunity for external and internal academic mobility of students, as well as assist them in obtaining external grants for training		+		
71		The university should encourage students to self-education and development outside the main program (extracurricular activities)	+			
72		An important factor is the availability of a support mechanism for gifted students		+		
73		The university should demonstrate cooperation with other educational organizations and national centers of the "European Network of National Information Centers for Academic Recognition and Mobility/National Academic Recognition Information Centers" ENIC/NARIC in order to ensure comparable recognition of qualifications		+		
74		The university should provide students with internship places, demonstrate the procedure for facilitating the employment of graduates, maintaining communication with them		+		
75		The university must demonstrate the procedure for issuing graduates with documents confirming their qualifications, including the achieved learning outcomes.		+		
76		The management of the EP should demonstrate that graduates of the program have skills that are in demand in the labor market and that these skills are really relevant		+		
77		The management of the EP should demonstrate the existence of a mechanism for monitoring the employment and professional activity of graduates		+		
78		An important factor is the presence of an active alumni association/association		+		
Total according to the standard			1	11	0	
<b>The standard "Teaching staff"</b>						
79		The university should have an objective and transparent personnel policy in the context of the EP, including hiring (including invited teaching staff), professional growth and staff development, ensuring the professional competence of the entire staff		+		
80		The university must demonstrate the compliance of the qualitative composition of the teaching staff with the established qualification requirements, the university's strategy, and the goals of the EP		+		
81		The management of the EP should demonstrate the change in the role of the teacher in connection with the transition to student-centered learning and teaching		+		
82		The university should provide opportunities for career growth and professional development of teaching staff, including young teachers		+		
83		The university should involve in teaching specialists of relevant industries with professional competencies that meet the		+		

		requirements of the EP				
84		The university must demonstrate the existence of a mechanism for motivating the professional and personal development of teaching staff		+		
85		The university should demonstrate the wide application of teaching staff of information and communication technologies and software in the educational process (for example, on-line training, e-portfolio, MOOS, etc.)				
86		The university should demonstrate the focus of its activities on the development of academic mobility, attracting the best foreign and domestic teachers				
87		The university must demonstrate the involvement of each teacher in promoting a culture of quality and academic integrity at the university, determine the contribution of teaching staff, including invited ones, to achieving the goals of the EP				
88		An important factor is the involvement of teaching staff in the development of the economy, education, science and culture of the region and the country				
Total according to the standard			0	10	0	
<b>The standard "Educational resources and student support systems"</b>						
89	1.	The university must ensure that the infrastructure, educational resources, including material and technical, meet the objectives of the educational program		+		
90	2.	The management of the EP must demonstrate the sufficiency of classrooms, laboratories and other facilities equipped with modern equipment to ensure the achievement of the goals of the EP		+		
		The university must demonstrate the compliance of information resources with the needs of the university and implemented EP, including in the following areas:				
91	3.	technological support of students and teaching staff in accordance with educational programs (for example, online training, modeling, databases, data analysis programs)		+		
92	4.	library resources, including a fund of educational, methodological and scientific literature on general education, basic and profile disciplines on paper and electronic media, periodicals, access to scientific databases		+		
93	5.	examination of research results, graduation papers, dissertations on plagiarism		+		
94	6.	access to educational Internet resources		+		
95	7.	functioning of WI-FI on its territory		+		
96	8.	The university must demonstrate that it creates conditions for conducting scientific research, integrating science and education, publishing the results of research work of teaching staff, staff and students		+		
97	9.	The university should strive to ensure that the educational equipment and software used for the development of educational programs are similar to those used in the relevant sectors of the economy		+		
98	10.	The management of the EP should demonstrate the availability of support procedures for various groups of students, including information and counseling		+		
99	11.	The management of the EP should show the availability of conditions for the advancement of the student along an individual educational trajectory		+		
100	12.	The university must take into account the needs of various groups of students (adults, working, foreign students, as well as students with special educational needs)			+	



10 1	13	The university must ensure that the infrastructure meets security requirements		+		
Total according to the standard			0	12	1	
<b>The standard "Informing the public"</b>						
10 2	1.	The university guarantees that the published information is accurate, objective, relevant and reflects all the activities of the university within the framework of the educational program			+	
10 3	2.	Public awareness should include support and explanation of the national development programs of the country and the system of higher and postgraduate education		+		
10 4	3.	The management of the university should use a variety of ways to disseminate information (including mass media, web resources, information networks, etc.) to inform the general public and interested persons		+		
		Information about the educational program is objective, relevant and should include:				
10 5	4.	the purpose and planned results of the educational program, the qualification assigned		+		
10 6	5.	The information and the system for evaluating students' academic achievements		+		
10 7	6.	The information about academic mobility programs and other forms of cooperation with partner universities, employers		+		
10 8	7.	The information about the opportunities for the development of personal and professional competencies of students and employment		+		
10 9	8.	The data reflecting the positioning of the educational program in the market educational services (at the regional, national, international levels)		+		
11 0	9.	An important factor is the publication on open resources of reliable information about the teaching staff, in the context of personalities		+		
11 1	10.	The university must publish on its own web resource the audited financial statements on the EP		+		
11 3	11.	The university should post information and links to external resources based on the results of external evaluation procedures		+		
11 4	12.	An important factor is the placement of information about cooperation and interaction with partners, including scientific/consulting organizations, business partners, social partners and educational organizations		+		
Total according to the standard			0	11	1	
<b>Total</b>			<b>1</b>	<b>104</b>	<b>8</b>	



AGREED  
 Board Member – Vice-Rector  
 for Academic Affairs  
 NAO "Al-Farabi Kazakh National University"  
 \_\_\_\_\_ L. Yerkinbayeva  
 «\_\_\_\_\_» \_\_\_\_\_ 2023



«АККРЕДИТЕУ ЖӘНЕ РЕЙТИНГТІН  
 ТӘУЕЛСІЗ АГЕНТТІГІ» КЕМ  
 НУ «НЕЗАВИСИМОЕ АГЕНТСТВО  
 АККРЕДИТАЦИИ И РЕЙТИНГА»  
 INDEPENDENT AGENCY FOR  
 ACCREDITATION AND RATING

APPROVE  
 General manager  
 NU "Independent Agency  
 accreditation and rating"  
 \_\_\_\_\_ A. Zhumagulova  
 «\_\_\_\_\_» \_\_\_\_\_ 2023

THE PROGRAM OF THE VISIT OF THE EXTERNAL EXPERT COMMISSION  
 INDEPENDENT AGENCY OF ACCREDITATION AND RATING (UAA)  
 IN THE NAO "AL-FARABI KAZAKH NATIONAL UNIVERSITY"  
 (international program accreditation)  
 Date of the hybrid visit: May 15-17, 2023

Cluster 1 (primary accreditation)	- 6B10102 Pharmacy - 8D10104 Pharmacy - 7M10121 Nursing (Quality management)
Cluster 2	- 7M10117 Pharmacy - 7M10116 Pharmacy 1 year
Cluster 3	- 7M04132 Management in healthcare (1,5 years) - 7M10101 Healthcare Management
Cluster 4	- 7M01401 Physical education and sports
Cluster 5 (primary accreditation)	- 6B10104 Dentistry
Cluster 6	- 7M10102 Public health
Cluster 7	- 8D07302 Geoinformatics
Cluster 8	- 7M05311 Nuclear medicine
Cluster 9 (primary accreditation)	- 6B05310 Nuclear medicine - 8D05309 Nuclear medicine
Cluster 10 (primary accreditation)	- 6B05401 Actuarial mathematics - 7M05401 Actuarial mathematics

Date	and	EEC's work with target	Surname, first name, patronymic and position of target group participants	Venue
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time (Astana time, GMT+6)	groups		
<b>May 12, 2023 year</b>			
16.00-17.00	Preliminary meeting of the EEC (discussion of key issues and the program of the visit)	External IAAR Experts	Connect to the Zoom Conference <a href="https://us02web.zoom.us/j/5332046823">https://us02web.zoom.us/j/5332046823</a> Conference ID: 533 204 6823 (only for the EEC)
<b>Day 1: May 15, 2023 year</b>			
10.00-10.30	Distribution of responsibility of experts, solution of organizational issues	External IAAR Experts	Office / aud № 308 Library  Connect to the Zoom Conference <a href="https://us02web.zoom.us/j/5332046823">https://us02web.zoom.us/j/5332046823</a> Conference ID: 533 204 6823 (only for the EEC)
10.30-11.00	Meeting with Board Members-Vice-Rectors (offline)	Board Member - Vice-Rector for Academic Affairs – Yerkinbayeva Lyazzat Kalymbekovna Member of the Management Board - Vice-Rector for EPerations - Asel Bekbolatovna Uvalieva Member of the Board, Vice-Rector for Social Development - Aydosov Nurzhan Sarsynbekovich Member of the Management Board - Vice-Rector for Financial Activities - Abdullaev Kalilla Nasurlaevich	Office / aud №409 Library  Connect to the Zoom Conference <a href="https://us02web.zoom.us/j/5332046823">https://us02web.zoom.us/j/5332046823</a> Conference ID: 533 204 6823
11.00-11.15	Technical break	External IAAR Experts	Office / aud № 308 Library
11.15-12.00	Meeting with heads of structural divisions (offline)	Appendix A	Office / aud № 409 Library  Connect to the Zoom Conference <a href="https://us02web.zoom.us/j/5332046823">https://us02web.zoom.us/j/5332046823</a> Conference ID: 533 204 6823
12.00-12.10	Technical break	External IAAR Experts	Office / aud №308 Library
12.10-13.00	Meeting with the deans of accredited EP (offline)	Appendix B	Office / aud № 409 Library  Connect to the Zoom Conference <a href="https://us02web.zoom.us/j/5332046823">https://us02web.zoom.us/j/5332046823</a> Conference ID: 533 204 6823

13.00-14.00	Lunch break	External IAAR Experts	
14.00-14.30	The work of the EEC	External IAAR Experts	Office / aud № 308 Library  Connect to the Zoom Conference <a href="https://us02web.zoom.us/j/5332046823">https://us02web.zoom.us/j/5332046823</a> Conference ID: 533 204 6823 (only for the EEC)
14.30-15.20	Meeting with heads of departments and coordinators of the EP (offline)	Appendix B Cluster 1, 2, 5 – aud № 304 Library Cluster 3, 6 – aud № 303 Library Cluster 4, 7, 10 – aud № 408 Library Cluster 8, 9 - aud № 307 Library	Office / aud №409 Library  Connect to the Zoom Conference <a href="https://us02web.zoom.us/j/5332046823">https://us02web.zoom.us/j/5332046823</a> Conference ID: 533 204 6823
15.20-15.30	Technical break	External IAAR Experts	Office / aud №308 Library
15.30-16.20	Meeting with the TS (offline)	1 Cluster (Nursing) (Appendix №1) (aud №201 Library, zoom session hall 1)  1 и 2 Cluster (Appendix №2) (Pharmacy) (aud №303 Library, zoom session hall 2)  3 Cluster (Appendix №3) (aud №304 Library, zoom session hall 3)  4 Cluster (Appendix №4) (aud №307 Library, zoom session hall 4)  5 Cluster (Appendix №5) (aud №408 Library, zoom session hall 5)  6 Cluster (Appendix №6) (aud №202 HSEB, zoom session hall 6)  7 Cluster (Appendix №7) (aud №305 geofac, zoom session hall 7)  8 Cluster (Appendix 8) (aud №409 Library, zoom session hall 8)	Connect to the Zoom Conference <a href="https://us02web.zoom.us/j/5332046823">https://us02web.zoom.us/j/5332046823</a> Conference ID: 533 204 6823

		9 Cluster (Appendix №9) (aud №409 Library, zoom session hall 9)	
		10 Cluster (Appendix №10) (aud №321 mechmat, zoom session hall 10)	
16.20-17.30	Survey of teaching staff (in parallel)	Appendix 11 (list with valid e-mail addresses)	The link is sent to the teacher's email personally 5 minutes before the start of the questionnaire
17.30-17.40	Technical break	External IAAR Experts	Office / aud №308 Library
16.40-18.00	Visual inspection of the OO	Appendix 12 (Route through clusters with responsible)	Along the route
18.00-18.30	Work of the EEC (discussion of the results and summing up of 1 day)	External IAAR Experts	Office / aud №308 Library  Connect to the Zoom Conference <a href="https://us02web.zoom.us/j/5332046823">https://us02web.zoom.us/j/5332046823</a> Conference ID: 533 204 6823 (only for the EEC)
18.30 – 19.30	Supper	External IAAR Experts	
Day 2: May 16, 2023 year			
09.30-10.00	Work of the EEC (discussion of organizational issues)	External IAAR Experts	Office / aud №308 Library  Connect to the Zoom Conference <a href="https://us02web.zoom.us/j/5332046823">https://us02web.zoom.us/j/5332046823</a> Conference ID: 533 204 6823 (only for the EEC)
10.00-12.00	Visiting the bases of EP practices (in parallel by clusters)	Appendix №24 (route by cluster)	Along the route  Connect to the Zoom Conference <a href="https://us02web.zoom.us/j/5332046823">https://us02web.zoom.us/j/5332046823</a> Conference ID: 533 204 6823
12.00-13.00	Working with department documents (documents must be uploaded to the cloud by clusters in advance, if	Heads of departments  <a href="https://drive.google.com/drive/folders/18RhWMameWMqpezlhHialKJRHV19ps-dU?usp=share_link">https://drive.google.com/drive/folders/18RhWMameWMqpezlhHialKJRHV19ps-dU?usp=share_link</a>	Connect to the Zoom Conference <a href="https://us02web.zoom.us/j/5332046823">https://us02web.zoom.us/j/5332046823</a>

	necessary, department heads will be invited to the online Zoom room)		Conference ID: 533 204 6823
13.00-14.00	Lunch break	External IAAR Experts	
14.00-15.00	Meeting with students (offline)	<p>1, 2 Cluster (Appendix №14) (aud №303 Library, zoom session hall 2)</p> <p>3 Cluster (Appendix №15) (aud №304 Library, zoom session hall 3)</p> <p>4 Cluster (Appendix №16) (aud №307 Library, zoom session hall 4)</p> <p>5 Cluster (Appendix №17) (aud №408 Library, zoom session hall 5)</p> <p>6 Cluster (Appendix №18) (aud №202 HSEB, zoom session hall 6)</p> <p>7 Cluster (Appendix №19) (aud №305 geofac, zoom session hall 7)</p> <p>8 Cluster (Appendix №20) (aud №201 Library, zoom session hall 8)</p> <p>9 Cluster (Appendix №21) (aud №201 Library, zoom session hall 9)</p> <p>10 Cluster (Appendix №22) (aud №321 mechmat, zoom session hall 10)</p>	<p>Connect to the Zoom Conference  <a href="https://us02web.zoom.us/j/5332046823">https://us02web.zoom.us/j/5332046823</a>            Conference ID: 533 204 6823</p>
14.00-15.00	Survey of students (in parallel)	Appendix №23 (list with valid e-mail addresses)	The link is sent to the teacher's email personally 5 minutes before the start of the questionnaire
15.00-15.10	Technical break	External IAAR Experts	Office / aud №308 Library
15.10-16.10	Meeting with employers EP (hybrid)	<p>Appendix №25 (list for each cluster)</p> <p>1, 2, 3, 5, 6, 8,9 Cluster aud №409 Library</p>	<p>Connect to the Zoom Conference  <a href="https://us02web.zoom.us/j/5332046823">https://us02web.zoom.us/j/5332046823</a>            Conference ID: 533 204 6823</p>

		4, 7,10 Cluster aud №303 Library	((you should connect strictly in 10 minutes, since employers will be divided into clusters (session halls) inside the online room, you should register your full name in Zoom and the cluster number in parentheses)
16.10-16.20	Technical break	External IAAR Experts	Office / aud №308 Library
16.20-17.10	Meeting with graduates (hybrid)	Appendix №26 (list for each cluster)  1, 2, 3, 5, 6, 8,9 Cluster aud №409 Library  4, 7,10 Cluster aud №303 Library	Connect to the Zoom Conference <a href="https://us02web.zoom.us/j/5332046823">https://us02web.zoom.us/j/5332046823</a> Conference ID: 533 204 6823  ((you should connect strictly in 10 minutes, since employers will be divided into clusters (session halls) inside the online room, you should register your full name in Zoom and the cluster number in parentheses)
17.10-18.20	Technical break	External IAAR Experts	Office / aud №308 Library
18.20-20.00	Work of the EEC, discussion of the results of the second day and profile parameters (recording is underway)	External IAAR Experts	Office / aud № 308 Library  Connect to the Zoom Conference <a href="https://us02web.zoom.us/j/5332046823">https://us02web.zoom.us/j/5332046823</a> Conference ID: 533 204 6823 (only for the EEC)
20.00-21.00	Supper	External IAAR Experts	
<b>Day 3: May 17, 2023 year</b>			
10.00-11.30	Work of the EEC (development and discussion of recommendations) (recording is underway)	External IAAR Experts	Office / aud № 308 Library  Connect to the Zoom Conference <a href="https://us02web.zoom.us/j/5332046823">https://us02web.zoom.us/j/5332046823</a> Conference ID: 533 204 6823 (only for the EEC)
11.30-11.40	Technical break	External IAAR Experts	Office / aud № 308 Library
11.40-13.00	Work of the EEC, development and discussion of recommendations	External IAAR Experts	Office / aud № 308 Library  (Individual work of an offline expert)

13.00-14.00	Lunch break	External IAAR Experts	
14.00-16.15	Work of the EEC, discussion, decision-making by voting (recording is underway)	External IAAR Experts	Office / aud № 308 Library  Connect to the Zoom Conference <a href="https://us02web.zoom.us/j/5332046823">https://us02web.zoom.us/j/5332046823</a> Conference ID: 533 204 6823 (only for the EEC)
16.15-16.30	Technical break	External IAAR Experts	Office / aud № 308 Library
16.30-17.00	The final meeting of the EEC with the leadership of the university (offline)	Heads of the university and structural divisions	Office / aud № 409 Library  Connect to the Zoom Conference <a href="https://us02web.zoom.us/j/5332046823">https://us02web.zoom.us/j/5332046823</a> Conference ID: 533 204 6823
18.00-19.00	- Supper	External IAAR Experts	

