



«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 for the  
evaluation for compliance with the requirements of the standards of  
primary specialized accreditation of educational programs

7M05101 Biology (primary accreditation)

NJSC "ASTANA MEDICAL UNIVERSITY"

in the period from 24 to 26 May 2022

**INDEPENDENT AGENCY FOR ACCREDITATION AND RATING**  
***External expert commission***

***Addressed to  
Accreditation  
Council of the IAAR***



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## **(I) LIST OF SYMBOLS AND ABBREVIATIONS**

**AK** - Academic calendar  
**DB** - Basic disciplines  
**EAEA** - External Assessment of Academic Achievements  
**SAC** - State Attestation Commission  
**GOSO** - State obligatory standard of education  
**DOT** - Distance Educational Technologies  
**UNT** - Unified National Testing  
**EHEA** - European Higher Education Area  
**ECTS** – European Credit Transfer System  
**IBK** - Information and Library Complex  
**ICT** - Information and Communication Technologies  
**IEP** - Individual Curriculum  
**KV** - Component of choice  
**CT** - Comprehensive Testing  
**KTO** - Credit technology of education  
**QED** - Catalog of elective disciplines  
**MES RK** - Ministry of Education and Science of the Republic of Kazakhstan  
**MEP** - Modular Educational Program  
**R & D** - Research work  
**NIRS** - Research work of students  
**OK** - Required component  
**OOD** - General Educational Disciplines  
**OP** - Educational programs  
**PD** - Major disciplines  
**PPP** - Faculty  
**RMEB** - Republican Interuniversity Electronic Library  
**RK** - Republic of Kazakhstan  
**RUP** - Working Curriculum  
**QMS** - Quality Management System  
**SPO** - Secondary Vocational Education  
**SRS** - Independent work of students  
**SRSP** - Independent work of students under the guidance of a teacher  
**TUP** - Model Curriculum  
**UMKD** - Educational and methodological complex of the discipline  
**UMO** - Educational and Methodological Department  
**UMS** - Educational and Methodological Council

## (II) INTRODUCTION

In accordance with order 68-22-od dated March 18, 2022 of the Independent Agency for Accreditation and Rating, from May 24 to May 26, 2022, an external expert commission assessed the compliance of the educational program "7M05101 Biology" of the Astana Medical University with the standards of primary specialized accreditation of the IAAR (from " May 25, 2018 No. 68-18/1-OD, first edition) in a hybrid format.

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

### **The composition of the WEC:**

**1) Chairman of the EEC** - Igor Cemortan, PhD, Associate Professor, State University of Medicine and Pharmacy. N. Testemitanu (Republic of Moldova). Off-line participation

**2) IAAR expert** – Suleymanova Leyla Magerramovna, Ph.D., Associate Professor, Azerbaijan Medical University (Azerbaijan Republic). Online participation

**3) Expert IAAR** - Grichanyuk Dmitry Alexandrovich Ph.D. honey. Sciences., Associate Professor, Head. Department of Oral and Maxillofacial Surgery, Belarusian Medical Academy of Postgraduate Education (Republic of Belarus) On-line participation

**4) IAAR expert** – Elena Alexandrovna Kiseleva, Doctor of Medical Sciences, Professor of the Novokuznetsk State Institute for Postgraduate Medical Education, a branch of the Russian Medical Academy of Continuous Professional Education of the Ministry of Health of Russia (Russian Federation). Online participation

**5) IAAR expert** - Khodjaeva Nigina Muradovna, Doctor of Medical Sciences, Director of the Center for Postgraduate Education, Professor of the Department of Children's Infectious Diseases of the State Educational Institution "Tajik State Medical University named after Abuali Ibni Sino" (Republic of Tajikistan). Off-line participation

**6) Expert IAAR** - Matyushko Dmitry Nikolaevich, PhD, NJSC "Medical University of Karaganda" (Republic of Kazakhstan). Off-line participation

**7) IAAR expert** – Pak Laura Alekseevna, PhD, Semey Medical University (Republic of Kazakhstan) Off-line participation

**8) IAAR expert** – Karibayeva Dina Orynbasarovna, Head of the Department of General Medical Practice No. 2, Candidate of Medical Sciences, Associate Professor, Kazakh National Medical University named after S.D. Asfendiyarov (Republic of Kazakhstan) Off-line participation

**9) Expert IAAR** - Veklenko Galina Viktorovna, candidate of medical sciences, associate professor, West Kazakhstan State Medical University. M. Ospanova (Republic of Kazakhstan) Off-line participation

**10) IAAR expert, employer** - Mukashev Aizar Manatovich, Deputy Chief Physician for Strategic Development, Children's Regional Hospital, Petropavlovsk (Republic of Kazakhstan) On-line participation

**11) Expert IAAR, employer** - Nurgalieva Ainur Tleugaliyevna, Chief physician of the ErStom clinic (Republic of Kazakhstan) Off-line participation

**12) IAAR expert, student** - Saule Bolatovna Kasymova, 2nd year PhD student, graduate school of public policy Nazarbayev University (Republic of Kazakhstan). Off-line participation

**13) IAAR expert, student** - Koyshyman Yernar Erkinbekuly, 2nd year resident, Karaganda Medical University (Republic of Kazakhstan). Online participation

**14) Expert IAAR, student** - Orynbasar Bibol Nurzhanuly, 2nd year student of General Medicine, Kazakh National University. Al-Farabi, member of the Alliance of Students of Kazakhstan (Republic of Kazakhstan). Online participation

**15) IAAR expert, student** - Panaev Ruslan, 3rd year student of the EP of Public Health, Kazakh-Russian Medical University, member of the Alliance of Students of Kazakhstan (Republic of Kazakhstan). Online participation

**16) IAAR expert, student** - Kudaibergenov Dias Bauyrdzhanuly, 4th year student of General Medicine, member of the Alliance of Students of Kazakhstan, "Kazakh National Medical University named after. S.D. Asfendiyarov" (Republic of Kazakhstan). Online participation

**17) IAAR Coordinator** – Saidulaeva Malika Akhyadovna, Project Manager of the Independent Agency for Accreditation and Rating (Republic of Kazakhstan). Off-line participation



### **(III) REPRESENTATION OF THE EDUCATIONAL ORGANIZATION**

The history of NJSC "MUA" is a path of formation and improvement for more than 50 years. The university was founded in October 1964 as the Tselinograd State Medical Institute by the decision of the Central Committee of the Communist Party and the Council of Ministers of the Kazakh SSR.

During the years of existence of the Medical Institute, there have been multiple changes in its organizational form, reforming the management system in accordance with the requirements of the time. The main stages of the development of the University:

1. Tselinograd State Medical Institute (1964-1997).
2. Kazakh State Medical Academy (1997-2008).
3. Joint Stock Company "Kazakh Medical Academy", with a wholly owned state participation in the authorized capital (13.05.2008-2009).
4. NJSC "Astana Medical University" (06.01.2009-01.07.2010) as part of JSC "National Medical Holding" (hereinafter - NMH).
5. NJSC "Astana Medical University" from 01.07.2010 is under the jurisdiction of the Ministry of Health of the Republic of Kazakhstan.

Detailed information is available on the university website.

On February 22, 2019, on the basis of the Decree of the Government of the Republic of Kazakhstan "On the issues of creating a non-profit joint-stock company "Astana Medical University" No. 648 dated October 16, 2018, the joint-stock company "Astana Medical University" was reorganized into a non-profit joint-stock company "Astana Medical University".

The documents constituting the organizational and legal basis of activities and the legal basis for the implementation of the educational program of the University are presented on the website of the university.

Currently, the university has a state license of the Committee for Control in Education and Science of the Ministry of Education and Science of the Republic of Kazakhstan No. KZ93LAA00014823 dated March 19, 2019 (date of initial issue: January 31, 2009), without a time limit, for the right to carry out educational activities under higher education programs and postgraduate vocational education, according to which he has the right to issue documents on education of the state standard.

According to the organizational structure of NJSC "MUA", the main structural divisions of the University are the institute, faculties, departments, departments, departments, centers, which include staff in the following categories: teaching staff, administrative and managerial personnel, teaching and support personnel, service personnel, other staff.

The University is constantly working to expand international relations; direct ties have been formed with many foreign scientific centers and universities. Agreements on cooperation in the field of education and science have been concluded with foreign universities and organizations in Europe and Asia.

Today NJSC "MUA" is a member of UNAI since February 24, 2016. Academic Engagement (UNAI) is a global initiative of the Secretary-General of the United Nations to enhance collaboration with higher education institutions in support of the goals of the United Nations. Participation in UNAI gives NJSC "MUA" all the benefits of being a member of a growing network of students and scientists who are actively working to organize events and conduct research in order to create a unified global culture of intellectual responsibility to society.

In 2018, on June 28, the University signed a memorandum of strategic partnership with Vilnius University, Lithuania, within the framework of which bilateral cooperation is being developed in the field of education, science, and clinical activities.

As part of the internationalization of medical education in 2019, the University, together with a leading foreign university, developed a joint double-degree master's program, NJSC "MUA" implements educational programs in English, thanks to which the number of foreign students is growing at the university every year.



The following projects have been successfully implemented at the University:

- Training to avoid medical errors - "TAME", 2015-2018;
  - Transition to the university autonomy of the universities of Kazakhstan - "TRUNAK", 2017-2020;
  - Development of the innovative potential of higher education in the field of nursing through the reform of the healthcare system - "ProInCa", 2017-2021;
  - Acceleration of the development of nursing education at the Master's and Doctoral levels in the higher education system of Kazakhstan - "AccelEd", 2020-2023;
  - Development of Academic Capacity in the field of Global Health in the region of Eastern Europe - Central Asia - "BACE", 2020-2024;
  - Projects of Erasmus + programs and the Mevlana exchange program for academic mobility;
- NJSC "MUA" has signed cooperation agreements with more than 112 universities and research institutes. Our students have the opportunity to study in Japan, Turkey, South Korea, the Czech Republic, Lithuania, Poland, Finland, Russia and other countries. The university is a member of international associations: the Magna Carta of Universities, the IFMSA association and the AMSE association <http://www.amse-med.eu/members-and-membership/members/>.

In the process of consistent development of the education system of Kazakhstan, an important characteristic of the activity of a higher educational institution is research work, in which the university has achievements.

In accordance with the Law of the Republic of Kazakhstan "On Science", the scientific activity of the University has been successfully accredited as a subject of scientific activity.

The University has a Fund for Scientific and Innovative Development, scientific seminars, scientific schools.

The Institute of Radiobiology and Radiation Protection operates at the University, which is unique among similar scientific institutions in the direction of its activities, which specializes in research on the effect of radiation on biocenoses, microbiocenoses, the human body and ways to correct and develop complexes and systems of preventive measures to prevent the harmful effects of radiation. The main task of the IRRZ is the development of scientific and methodological foundations for the medical provision of radiation safety for workers at radiation-hazardous enterprises and methods for reducing the radiation risk of the population from man-made sources of ionizing radiation. The testing laboratory of the Institute of Radiobiology and Radiation Protection of NJSC "MUA" is accredited for compliance with ISO / IEC 17025, to confirm the competence and compliance of the testing laboratory with the requirements of the standard.

NJSC "MUA" was the first medical university in Kazakhstan to begin multi-level training of medical and scientific and pedagogical personnel (the system of continuous higher education) in the following areas: bachelor's degree - internship - residency; bachelor's degree - master's degree - PhD doctoral studies.

6740 students, 1607 interns, 950 residents, 114 undergraduates and 85 doctoral students study at the faculties of the University, including 1120 foreign students.

The university operates a system of international distance learning (MOODLE), which uses the latest achievements in this field in its work.

Students of NJSC "MUA" have international recognition, university students are winners of international scientific and practical conferences, international student subject Olympiads. In 2019, 650 students from 7 medical universities of Kazakhstan were assessed on the international foundations of medicine - International Foundations of Medicine (IFOM), university students who scored high on the results of the International Foundations of Medicine Exam - IFOM were awarded certificates. One of the students entered the top three leaders in the world, scoring the highest score among students of medical universities of the Republic of Kazakhstan, this is a high indicator not only in Kazakhstan, but also in the world.

Professional training of students is carried out at 81 clinical bases of the university, located in the largest national, republican centers, research institutes of Kazakhstan. Employees of clinical departments are categorized doctors, members of various associations who perform complex

operations, introduce new medical technologies in practical healthcare, and they also carry out field consultative and methodological work in non-basic medical organizations and in supervised areas of the Republic of Kazakhstan.

The University operates the "Medical Center of NJSC "MUA", which provides services under the state order within the guaranteed volume of free medical care to the attached population (children, adults), including university students, as well as on a paid basis.

NJSC "MUA" has introduced and develops distance technologies used in the educational process, based on the use of global and local computer networks to provide students with access to information educational resources of the university, regardless of its location.

NJSC "MUA" works mainly on the information and educational platform Moodle, where all educational materials are loaded: syllabuses, calendar and thematic plans, schedule, tasks for students, presentations, links to electronic learning resources, questions of boundary and final control.

For the transfer and mailing of educational material, online meetings with students, providing feedback, employees and teachers of the University use video, instant messengers and various platforms (Zoom, Skype, Meet.jit.si, Kahoot, etc.), and the official recommended platform is: Teams and Webex.

To check text documents for the presence of borrowings from open sources on the Internet and other sources, the Antiplagiat.Vuz program is integrated with the Moodle portal. To conduct exams in the mode of distance learning technologies, the developed online proctoring technology is used, which allows you to verify the student, monitor the student's screen and behavior, and record the entire exam on video.

In order to create conditions for the teaching staff to independently introduce new multimedia technologies, modernize existing educational / research developments, the University has a Multimedia Electronic Textbook Studio.

NJSC "MUA" is an active user of social networks to provide an information field and a platform for communication with stakeholders.

Links to accounts of NJSC "MUA" in social networks:

Official website - <https://www.amu.kz/>

Instagram account - [https://www.instagram.com/amu\\_mua\\_official/](https://www.instagram.com/amu_mua_official/)

Facebook account - <https://www.facebook.com/MeduniverAstana/>

Youtube: <https://www.youtube.com/channel/UCxoJTRfEXwroJx0wub6ZvQQ>

As part of the implementation of the strategic direction 5. "Contribution to the development of the national context of health and education" of NJSC "Astana Medical University" (hereinafter referred to as the University) for 2019-2023, where the University plans to continue improving the quality assurance system.

The quality assurance system of the University is based on international standards and guidelines for quality assurance of higher and postgraduate education in the European Higher Education Area (ESG-ISJ), in accordance with which, according to the Law of the Republic of Kazakhstan "On Education", the university undergoes institutional and specialized accreditation in accreditation bodies, entered in the register of recognized accreditation bodies, as well as on the elements of the international quality management system standard ISO 9001:2015 in quality management.

In 2019, the University successfully passed institutional accreditation for compliance with the standards of institutional accreditation of higher education organizations until 2024, specialized accreditation of 55 programs for compliance with the standards for accreditation of educational programs of higher and postgraduate education, which were developed in accordance with the new edition of the European standards and guidelines for quality assurance education (ESG).

Every year, in order to position itself as a competitive university providing quality educational services, the university in the National Ranking of Demand for Universities 2021, which was conducted by the Independent Agency for Accreditation and Rating (IAAR / IAAR),



entered the general rating of the "TOP-20" universities of the Republic of Kazakhstan with an indicator of 33,418 points, as a result of which he took an honorable 7th place among 85 universities of multidisciplinary, technical, humanitarian, economic, medical and pedagogical areas, as well as arts and 3rd position among medical universities.

In the world ranking of university Internet sites Ranking Web of Universities (Webometrics, 2021), NJSC "MUA" takes 9780th place, in the continental ranking 3191st place, in the republic 20th place, which confirms the development of the content of the corporate website [www.amu.kz](http://www.amu.kz)", reflects the quality of the information infrastructure of the University and the quality of the management of the University.

According to the results of the rating assessment of the educational activities of medical universities conducted by the Ministry of Health of the Republic of Kazakhstan following the results of the 2020-2021 academic year, NJSC "Astana Medical University" led the overall rating with a value corresponding to the level of 5 stars.

In the ranking of educational programs of universities, conducted by the National Chamber of Entrepreneurs "Atameken" in 2021, the University took:

- First place in the specialties "Dentistry";
- second place - "Pharmacy", "Nursing" and "Public Health";
- third place - "General Medicine".

It should be noted that such ratings of educational programs help to meet the interests and needs of applicants and their parents, and for universities, ratings provide an opportunity to increase their competitiveness.

Ranking allows you to assess the quality of the educational services provided and helps to answer the request of applicants for choosing a place to study.

In the implementation of the EP for the magistracy 7M 05101 "Biology" the resources of the following departments are used:

- Department of Medical Genetics and Molecular Biology;
- Department of Microbiology and Virology. Sh.I. Sarbasova;
- Department of Philological Disciplines;
- Department of Social and Human Sciences (use of own developments in the educational process - Electronic textbooks);
- Institute of radiobiology and radiation protection.

The teaching staff implementing the educational process within the framework of the Master's degree program 7M 05101 "Biology" consists of 6 doctors of science (including 6 professors), 1 PhD and 2 candidates of science (including 2 associate professors), 2 masters. 3 foreign consultants are also involved.

In September 2021, the first set of undergraduates for this educational program was made in the amount of 4 people, in January 2022, another undergraduate was admitted to OP 7M05101 "Biology". Thus, at the time of the visit, 5 first-year undergraduates were studying at the EP 7M05101 "Biology". At the moment, there are no graduates of EP 7M05101 "Biology". However, according to the results of conversations with students and employers, graduates of this educational program will be in demand at the Institute of Radiobiology and Radiation Protection and in the regions.

Since the undergraduates of the EP 7M05101 "Biology" study only in the second semester, and conduct active research work, internships and academic mobility are planned for the 3rd semester. The university is actively working to find partners for academic mobility and scientific internships. IRRZ conducts active research activities within the framework of which a Memorandum was concluded between the University of Tsukuba, Japan and NJSC "MUA", cooperation with the USA, Canada, Great Britain, Germany, France, Russia is being carried out. Currently, at the stage of concluding an agreement with the International Atomic Energy Agency

(IAEA), approval has been received. Based on the international relations of the university, it is planned to carry out scientific internships, academic mobility to partner countries.

#### **(IV) DESCRIPTION OF THE PREVIOUS ACCREDITATION PROCEDURE**

The educational program "7M05101 Biology" is being accredited by the IAAR for the first time.

#### **(V) DESCRIPTION OF THE EEC VISIT**

The work of the EEC was carried out on the basis of the approved Program for the visit of the expert commission for specialized accreditation of educational programs to the AMU from May 24 to May 26, 2022.

In order to coordinate the work of the EEC, a kick-off meeting was held on May 23, 2022, during which powers were distributed among the members of the commission, the schedule of the visit was specified, and 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, deans of faculties, heads of departments, teachers, students, graduates, employers. In total, 70 representatives took part in the meetings (table 1).

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

<b>Participant category</b>	<b>Quantity</b>
Rector	0
Vice-Rectors and Head of the Rector's Office	4
Heads of structural divisions	21
Deans of faculties	4
Heads of EP, heads of departments	25
teachers	8
students	5
Graduates	0
Employers	3
<b>Total</b>	<b>70</b>

During the excursion, the EEC members got acquainted with the state of the material and technical base, visited the Center for Support of Publications and Library Services, the Training and Clinical Center, the Institute of Radiobiology and Radiation Protection, the main building, the Department of Medical Genetics and Molecular Biology.

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

For the period of accreditation, the classes were visited by the laboratories of the Institute of Radiobiology and Radiation Protection, where undergraduates carried out research work to identify radioactive contamination in biological samples, as well as in the soil.

In accordance with the accreditation procedure, a survey was conducted of 111 teachers, 387 students, including 1st year undergraduates of EP 7M05101 "Biology".

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

As part of the planned program, recommendations for improving the accredited educational programs of the AMU, developed by the EEC based on the results of the examination, were presented at a meeting with the management on 26.05.2022 г.



## **(VI) COMPLIANCE WITH PRIMARY SPECIALIZED ACCREDITATION STANDARDS**

### **6.1. Standard "Management of the educational program"**

- ✓ *The organization of higher and (or) postgraduate education must have a published quality assurance policy. The quality assurance policy should reflect the relationship between research, teaching and learning.*
- ✓ *The organization of higher and (or) postgraduate education must demonstrate the development of a culture of quality assurance, including in the context of EP.*
- ✓ *Commitment to quality assurance should apply to any activity performed by contractors and partners (outsourcing), including the implementation of joint / double degree education and academic mobility.*
- ✓ *The management of the EP demonstrates its readiness to ensure transparency in the development of the EP development plan based on an analysis of its functioning, the real positioning of the PA and the focus of its activities on meeting the needs of the state, employers, students and other interested parties. The plan should contain the dates for the start of the implementation of the educational program.*
- ✓ *The EP management demonstrates the existence of mechanisms for the formation and regular revision of the EP development plan and monitoring its implementation, assessing the achievement of learning goals, meeting the needs of students, employers and society, making decisions aimed at continuous improvement of the EP.*
- ✓ *The EP management should involve representatives of stakeholder groups, including employers, students and teaching staff in the formation of the EP development plan.*
- ✓ *The management of the EP must demonstrate the individuality and uniqueness of the EP development plan, its consistency with national priorities and the development strategy of the organization of higher and (or) postgraduate education.*
- ✓ *The organization of higher and (or) postgraduate education must demonstrate a clear definition of those responsible for business processes within the EP, an unambiguous distribution of staff duties, and delimitation of the functions of collegial bodies.*
- ✓ *The management of the EP must provide evidence of the transparency of the educational program management system.*
- ✓ *The management of the EP must demonstrate the existence of an internal quality assurance system of the EP, including its design, management and monitoring, their improvement, decision-making based on facts.*
- ✓ *The management of the EP must carry out risk management, including within the framework of the EP undergoing primary accreditation, as well as demonstrate a system of measures aimed at reducing the degree of risk.*
- ✓ *The management of the EP should ensure the participation of representatives of employers, teaching staff, students and other interested parties in the collegiate management bodies of the educational program, as well as their representativeness in making decisions on the management of the educational program.*
- ✓ *OO must demonstrate innovation management within the EP, including the analysis and implementation of innovative proposals.*
- ✓ *The management of the EP must demonstrate evidence of readiness for openness and accessibility for students, teaching staff, employers and other interested parties.*
- ✓ *The management of the EP must be trained in education management programs.*

### ***Evidence***

The NJSC "Astana Medical University" has developed and approved the Academic Policy (P-MUA-17-20), approved by the decision of the Board of the university No. 29 dated 08.10.2020, amended and supplemented by the decision of the Senate No. 1 dated September 24, 2021. In the 8th chapter, "Quality Assurance Policy", it is indicated that the improvement of medical education takes place in accordance with the achievements of modern medical science and practice; development of partnerships and exchange of experience with other universities, research centers and organizations in the field of medicine and healthcare. The academic policy is available to students, faculty and staff of the university, is located on the university website in the section for students and staff (<https://amu.edu.kz/upload/iblock/42c/42c058f8028d7d70e9f49a0db4fe6bd4.pdf>).

The university provides high quality education based on modern principles. In the process of preparing undergraduates of EP 7M05101 "Biology" new educational technologies are used, including the involvement of students in scientific research with practical significance. Each master student is assigned specific goals in accordance with individual research work, which is carried out on the basis of the Institute of Radiobiology and Radiation Protection. The research results are reflected in the publications of undergraduates.

In order to ensure the qualitative implementation of the goals of the educational program 7M 05101 - "Biology", the experience of other universities, research institutes, organizations of practical health care in which undergraduates carry out some stages of research work (research

bases), undergo internships is used. The University invites leading visiting specialists - professors to give lectures, conduct master classes on topical topics for students in the magistracy. Thus, a master class was held by Ph.D. Marapov Damir Ildarovich on statistical processing of scientific research data for all students of master's and doctoral studies. A master class was also held on the methodology of writing scientific articles by Professor Nazarbayev University Chen Yong. Also, the university has developed and operates the regulation "On outgoing academic mobility of students of the NJSC "Astana Medical University" (PL - MUA - 05 - 20), which regulates the outgoing mobility of students with partner universities, funded by international programs Erasmus +, Mevlana and others. It is planned to develop joint and double-degree educational programs with partner universities, with the conclusion of agreements on joint educational activities.

The structure of the content of the educational program 7M05101 - "Biology" is determined in accordance with the established requirements for accounting and measuring instruments of education and consists of various types of educational work: theoretical classes, professional practice (pedagogical, research), research work, intermediate and final certification. Education within the framework of this program is carried out only on a full-time basis and lasts 2 years. The academic year in the magistracy consists of academic periods independently established by educational and scientific organizations in one of three forms (a semester of 15 weeks, a trimester of 10 weeks, a quarter of 8 weeks), an intermediate certification / final control period, practices, final certification and holidays .

The structure of the educational program is formed on the basis of the State Educational Standard of the Republic of Kazakhstan and the TUP, is considered at meetings of the department, KOC for magistracy and doctoral studies, KOC of the university, and the Academic Council. The structure of the EP is discussed with potential employers. Undergraduates study on the basis of an individual work plan, which is drawn up for the entire period of study. According to a survey of students, their opinion is taken into account when improving the program. Based on the interest of potential employers, it is planned to open a new undergraduate program in Biology.

The university has developed the regulation SU-MUA-18 "Feedback Monitoring", according to which it monitors and analyzes the satisfaction and perception of the main consumers (students, employers, teaching staff) of the university's activities and responds to identified problems. Meetings are organized with the rector, vice-rectors, deans, program managers, where issues of the quality of the content of the educational program, the quality of teaching, the quality of the organization of the educational process, the quality of teaching technologies, the quality of forms of control of students' knowledge, learning conditions, material and technical, methodological, information support of educational process, living conditions, food conditions, etc. The University monitors and analyzes the activities and activities of other various organizations in the field of quality management in various fields of activity and business processes of the university. Based on the results of the survey, interviews, proposals and complaints received, corrective action plans are developed to implement the proposals and eliminate complaints and claims and are posted on the university's web portal.

The development plan for the educational program 7M 05101 "Biology" is designed in accordance with the standards adopted at the university and contains an analytical rationale for the program, the objectives of the EP, information about the EP, EP planning mechanisms, indicating the timing and stages.

The Center for Master's and Doctoral Studies is the responsible unit for constant monitoring of changes in the normative and regulatory documents for the organization of admission, training in master's and doctoral studies. Thus, in connection with changes in the standard rules for admission - the introduction of winter admission to the magistracy and doctoral studies - changes were made to the rules for admission to the magistracy and doctoral studies. Changes were also made to the position of the university in terms of the abolition of a comprehensive exam in the IGA for undergraduates and doctoral students. The Inter-Cathedral Council was abolished as one of the stages for approving the themes of dissertations and supervisors, as well as one of the stages for the pre-defense of dissertations by undergraduates and doctoral students. It should be noted



that all interested parties have access to the database of internal regulatory documents, which are located on the university website.

Issues related to the educational process are submitted for discussion and consideration sequentially at the KOC of educational programs for master's and doctoral studies, at the KOC of the university, after which it is considered at a meeting of the committee for academic activities and the committee for scientific activities under the Academic Council, and the final decision on the approval of the issue is made by open voting at a meeting of the Academic Council. Issues related to the financing of academic mobility, scientific internships, business trips are included in the development plan of the university, and are considered at a meeting of the University Board.

In NJSC "MUA" quite effective mechanisms have been introduced to comply with the principles of academic honesty and eliminate academic dishonesty, which control the work of the university: the Board of Directors, the internal audit service. Also, the university has created special services for students and a student self-government council, where students themselves control the education process. The creation of the Code of Corporate Culture and Ethics was created at the university. The student's individual contract contains an obligation to follow the disciplinary requirements of the "Code of Corporate Culture and Ethics of NJSC "MUA" and the "Rules of the Student's Internal Regulations".

Evaluation of the effectiveness of the implementation of the educational program is carried out constantly with the assistance of all interested parties. Measures are envisaged for the development of personnel, including support for young scientists. Based on the results of current and final performance, the success of training is assessed.

The university pays special attention to risk management. In order to prevent the development of risk and reduce the risk of reducing the number of grant places for training in this EP or the lack of grants, the university sends an application to the Ministry of Education and Science of the Republic of Kazakhstan with a request for the allocation of a state order within the framework of the educational program 7M05101 "Biology" of NJSC "MUA».

The University ensures the participation of representatives of employers, teaching staff, students and other interested parties in the collegiate bodies. Thus, the Academic Council includes all heads of departments, heads of structural divisions of the university, administration, heads of hospitals and polyclinics of the city of Nur-Sultan, teaching all levels of education, including undergraduates, though in other specialties. During meetings with various focus groups, it was identified the need for more intensive involvement of representatives of stakeholder groups, including international experts and strategic partners, in the process of developing the EP, quality assurance for peer review, analysis and updating of program components.

As part of the implementation of the EP for the magistracy 7M 05101 "Biology", various innovative pedagogical methods have been introduced and are being applied: modeling methods, E-learning, the use of reference signs and abstracts, the use of mind maps / Mind maps, computer-interactive training programs, the use of electronic textbooks, practice-oriented training on examples of methods: "Organization of a unified system of medical support for radiation safety (ESMORS)"; "Organization of industrial radiation monitoring of the territories of oil and gas producing enterprises"; "Method of determination of uranium in urine". The University successfully operates a professional studio for recording multimedia content, which is available for free use. At the moment, the portal hosts more than 27 developed electronic textbooks of the teaching staff of the University with open access for students.

University staff and teaching staff involved in the organization and implementation of the educational process within the framework of the educational program 7M 05101 "Biology" are trained in management in the field of education in the competencies: Effective teacher, Professional, Leader / organizer, Researcher / scientist, Communication skills.

**Analytical part**

According to the standard "Management of the educational program", it was revealed that the university has developed and published a Quality Assurance Policy, which reflects the relationship between research, teaching and learning. Within the framework of EP 7M 05101 "Biology", undergraduates are intensively involved in individual research work with practical significance on the basis of the Institute of Radiobiology and Radiation Protection. As a result, graduates of this EP will be in demand. In this regard, the university plans to open an adjacent bachelor's degree program "Biology".

Stakeholders are involved in the development of the EP development plan based on the analysis of its functioning, however, it is necessary to involve international experts and strategic partners due to the constant updating of information in this area.

The university has an internal quality assurance system for the EP, which is based on design, management and monitoring, and continuous improvement.

Since a small number of undergraduates study at this EP, as part of risk management, there is communication with the Ministry of Education and Science of the Republic of Kazakhstan on the allocation of a state order.

Teaching staff involved in the implementation of EP 7M 05101 "Biology" are trained in management in the field of education.

**Strengths / best practice in EP "7M05101 Biology»:**

- Existence of a Quality Assurance Policy that reflects the relationship between research, teaching and learning.
- Involvement of undergraduates in individual research work.
- Availability of the Institute of Radiobiology and Radiation Protection as a research base.
- Availability of an internal quality assurance system for the EP.
- Planning the opening of the EP "Biology".
- Training of teaching staff in the field of management in the field of education.

**Recommendations for EP "7M05101 Biology»:**

- Involvement of representatives of stakeholder groups, including employers, students and teaching staff, as well as international experts in the field of medical education, strategic partners, in the process of developing the EP, quality assurance for peer review, analysis and updating of the components of the EP. Deadline: 2022-2023 academic year.

**EEC conclusions by criteria:**

In general, according to the Standard "Management of the educational program", the activities of the university in the framework of the educational program "7M05101 Biology" meet the criteria.

Quantitative indicators reflecting the compliance of the organization with the criteria of the Standard are as follows:

Strong - 2

Satisfactory - 12

Suggest improvements - 1

Unsatisfactory – 0

**6.2. Information Management and Reporting Standard**

✓ The OO must demonstrate the existence of a system for collecting, analyzing and managing information based on the use of modern information and communication technologies and software tools and that it uses a variety of methods to collect and analyze information in the context of the EP.

- ✓ The management of the EP should demonstrate the existence of a mechanism for the systematic use of processed, adequate information to improve the internal quality assurance system.
- ✓ EP management must demonstrate fact-based decision making.
- ✓ Within the framework of the EP, a system of regular reporting should be provided, reflecting all levels of the structure, including an assessment of the effectiveness and efficiency of the activities of departments and departments, scientific research.
- ✓ The PA should establish the frequency, forms and methods for assessing the management of the EP, the activities of collegial bodies and structural divisions, top management, and the implementation of scientific projects.
- ✓ The OO must demonstrate the determination of the procedure and ensuring the protection of information, including the identification of persons responsible for the reliability and timeliness of the analysis of information and the provision of data.
- ✓ An important factor is the availability of mechanisms for involving students, employees and teaching staff in the processes of collecting and analyzing information, as well as making decisions based on them.
- ✓ The management of the EP must demonstrate the existence of a mechanism for communication with students, employees and other stakeholders, as well as mechanisms for resolving conflicts.
- ✓ OO must demonstrate the availability of mechanisms for measuring the degree of satisfaction with the needs of teaching staff, staff and students within the framework of the EP.
- ✓ The PA should provide for an assessment of the effectiveness and efficiency of activities, including in the context of the EP.
- ✓ Information expected to be collected and analyzed within the framework of the EP should take into account:
  - ✓ key performance indicators;
  - ✓ the dynamics of the contingent of students in the context of forms and types;
  - ✓ level of progress, student achievements and expulsion;
  - ✓ satisfaction of students with the implementation of the EP and the quality of education at the university;
  - ✓ availability of educational resources and support systems for students
- ✓ PA must confirm the implementation of the procedures for processing personal data of students, employees and teaching staff on the basis of their documented consent

### **Evidence**

In NJSC "MUA" information management processes are carried out in accordance with internal regulations. An important part of information management is the introduction of new learning technologies, such as: information and telecommunication technologies, deepening the information integration of education and science, providing additional educational services, including those related to the implementation of the principle of "lifelong learning" and e-learning.

The University has an updated web portal <https://amu.edu.kz/> (in 3 languages), which contains up-to-date information about the university, its divisions, study programs, events taking place at the university, educational, methodological, scientific information and etc. According to the survey, 73.8% of students are satisfied with the work of the portal. Portals with authorized access have also been developed: Platonus automated information system (<https://pl.amu.kz/>), electronic library (<https://bibl.amu.kz/>), library electronic catalog (<https://kb.amu.kz/>), distance learning platform (<https://dl.amu.kz/>) openlabyrinths (<http://olab.amu.kz:5181/>), electronic document management systems (hereinafter referred to as EDMS) "Documentolog" (<https://amu.documentolog.kz/>). Information protection at the university is ensured by the installed Cyberoam CR750iNG-XP firewall and Eset NOD 32 antivirus.

The assessment of the system for ensuring the quality of education in the university is carried out in the following areas: analysis of the demand for graduates, the quality of the living environment and activities of students, the infrastructure for ensuring the quality of education; legal framework for ensuring the quality of the educational process, the quality of information and methodological support of the learning process; the learning process, the competence of the teaching staff, technology and means of ensuring the quality of education, performance monitoring. Due to the absence, the analysis of the demand for graduates in the EP "7M05101 Biology" was not carried out. The management of the educational program collects and analyzes the data obtained as a result of the survey and questionnaires to assess the system for ensuring the quality of education. According to the results of a survey of students, 70.6% of respondents are satisfied with the quality of educational programs, and 75.5% are satisfied with the quality of teaching.

Universities have a system of multi-level collegial bodies, the procedure for creating and operating, the composition and powers of which are determined by the regulations on these bodies, approved by the University Board. According to the Charter of the University, one of the main bodies of the University is a collegial executive body - the Board, which is guided in its activities

by the Regulations on the Board. The Academic Council is a collegiate body for the academic, scientific, clinical areas of the University. The faculty is managed by the Faculty Council.

Within the framework of the EP "7M05101 Biology" a system of regular reporting is carried out, in accordance with the regulation "On the formation of an annual report on the activities of the department of NJSC "Astana Medical University».

At the meeting of the department, and then at the faculty council, the annual reports of the department are considered, on the basis of which an analysis of the state of the department is carried out on issues of educational, methodological, scientific, as well as educational work with students; the state of the level of training of students and other issues related to the assessment of the effectiveness and efficiency of the unit.

Evaluation of the activities of the EP management is carried out using the analysis of reports and plans, internal audit and self-assessment, quarterly analysis of the implementation of strategic goals, as well as the risks of the university, reports of the rector and vice-rectors on achieving KPI, analysis of the work of internal and external commissions.

Information protection in NJSC "MUA" is carried out in accordance with the Information Security Policy, in accordance with the requirements of the Law of the Republic of Kazakhstan "On Informatization". Information security management is part of the overall corporate governance of the University. In some cases, on a contract basis, third-party organizations are involved to ensure the information security of electronic information resources, information systems, as well as information and communication infrastructures. Internal document flow takes place in the Documentolog network (<https://amu.documentolog.kz/user/login>), access to which is provided by a login and password. The AIS PLATONUS system, which contains personal data on the progress of students, etc., is also protected from unauthorized access by the presence of special logins and passwords for students, teaching staff and management personnel.

The university uses the practice of involving students, employees and teaching staff in the processes of collecting and analyzing information, which allows assessing the quality of the educational program. According to the results of the survey of teaching staff, 99.1% of respondents are satisfied with the content of the educational program. Graduate students also provide systematic feedback aimed at the successful development of the educational program, participate in the work of the KOC OP, KOC University, the Academic Council, student government and are constantly involved in the evaluation of the educational program.

Students have the opportunity to personally communicate with the head of the center for master's and doctoral studies, the director of the Institute and the deputy director, teaching staff of the department. According to the results of the survey of students, 79.2% of respondents are satisfied with the relationship between the student and the teaching staff. Also, 93.7% of teaching staff are satisfied with the openness and accessibility of management for students.

The university has developed conflict resolution mechanisms. When considering complaints, appeals of undergraduates and university staff, commissions are formed that make decisions.

The main tool for studying the opinions of consumers and stakeholders of the university to determine the main strategic directions for the development of both the university and the processes as a whole is feedback monitoring. The students are surveyed online. The survey is carried out anonymously, in the automated information system "Platonus", which presents the results automatically.

The university analyzes the results of the final exams in a timely manner, monitors the publication activity of the teaching staff and students, on the basis of which decisions are made. Evaluation of the effectiveness and efficiency of the implementation of the EP is carried out at the level of the Academic Council, KOC, KOC OP, faculty council, with the participation of teaching staff, representatives of practical healthcare and students who are members of the collegial bodies of NJSC "MUA".

Admission of students to the master's program "Biology" is carried out from the 2021-2022 academic year. 4 undergraduates entered the summer enrollment, and 1 undergraduate enrolled in



the winter enrollment. All undergraduates continue their studies at the university. The level of performance of undergraduates per semester is 3.89.

The processing of personal data of students, employees and teaching staff of NJSC "MUA" is carried out in accordance with the requirements of the legislation of the Republic of Kazakhstan and ensures the protection of the rights and freedoms of man and citizen. Personal data includes: last name, first name, patronymic, date and place of birth, position, place of work, information about education, academic degree, title, passport data, place of residence, contact numbers, e-mail address, personal account of a bank book, bank card, information about income, including the size of the official salary, allowances, additional payments, material assistance, scholarships, etc., marital status, family composition; surnames, names, patronymics, dates of birth of children; surname, name, patronymic, position and place of work of the spouse; data on the passage of a medical examination when applying for a job, periodic medical examinations, on the presence of vaccinations; data on labor activity, length of service, incl. teaching experience; attitude to military duty; information about progress; surnames, names, patronymics of parents or other legal representatives; average family income. The processing of personal data is carried out with the consent of the subjects to the processing of their data in oral or written form.

#### ***Analytical part***

According to the "Information Management and Reporting" standard, it was revealed that the university has developed and implemented regulatory documents for the implementation of information management processes. The updated web portal provides open access to various information for all interested parties. Portals with authorized access for AIS, libraries, circulation of documents, distance learning have also been developed.

The university has implemented a well-established Assessment of the education quality assurance system based on the results of surveys and questionnaires.

According to the Charter of the University, there is a system of multi-level collegiate bodies, which include representatives of all interested parties. By means of the analysis of reports and plans, internal audit and self-assessment, quarterly analysis of the implementation of strategic goals, a periodic assessment of the activities of the EP management is carried out.

The university provides information security and limited access to personal data.

The University has developed and implemented a conflict resolution system.

#### ***Strengths / best practice in EP "7M05101 Biology»:***

- Availability of regulatory documents for the implementation of information management processes.
- The updated web portal provides free access to a variety of information about the university and educational programs.
- The information security system ensures the safety of personal data.

#### ***Recommendations for EP "7M05101 Biology»:***

For OP "7M05101 Biology" there are no recommendations for this Standard.

#### ***EEC conclusions by criteria:***

In general, according to the Standard "Information Management and Reporting", the activity of the university within the framework of the educational program "7M05101 Biology" meets the criteria.

Quantitative indicators reflecting the compliance of the organization with the criteria of the Standard are as follows:

Strong - 0

Satisfactory - 16

Suggest improvements - 0



Unsatisfactory – 0

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

- The OO must define and document the procedures for developing the EP and their approval at the institutional level
- The management of the EP should ensure that the developed EP complies with the established goals, including the expected learning outcomes
- The management of the EP must demonstrate the existence of mechanisms for reviewing the content and structure of the EP, taking into account changes in the labor market, the requirements of employers and the social demand of society
- The management of the EP should ensure the availability of developed models of the EP graduate, describing the learning outcomes and personal qualities
- The management of the EP must demonstrate the conduct of external reviews of the content of the EP and the planned results of its implementation
- The qualification awarded upon completion of the EP must be clearly defined and correspond to a certain level of the NSC and QF-EHEA
- The EP management should determine the influence of disciplines and professional practices on the formation of learning outcomes
- An important factor is the possibility of preparing students for professional certification
- The management of the EP must provide evidence of the participation of students, teaching staff and other stakeholders in the development of the EP, ensuring their quality
- The management of the EP should ensure that the content of the academic disciplines and the planned results correspond to the level of education (bachelor's, master's, doctoral studies)
- The structure of the EP should provide for various types of activities that ensure that students achieve the planned learning outcomes
- An important factor is the correspondence between the content of the EP and the learning outcomes of the EP implemented by organizations of higher and (or) postgraduate education in the EHEA

#### **Evidence**

NJSC "MUA" has developed and implemented a number of provisions and procedures aimed at developing EPs and their approval at the institutional level. There are several stages for coordination and approval of the program. Thus, the master's degree program "7M05101 Biology" was developed by the Institute of Radiobiology and Radiation Protection. After agreement with the teaching staff, employers, the program is submitted for consideration by the COC OP "Masters and Doctoral Studies", and then - at a meeting of the COC University. Finally, the EP is approved by the Academic Council. OP 7M05101 - "Biology" was developed and approved on August 28, 2020.

The purpose of the educational program is formulated in accordance with the requirements of state education standards, the needs of the state and the market, the strategy of the university, the needs of employers and the wishes of students. The purpose of the educational program 7M05101 - "Biology" is "In-depth training of a qualified specialist with a system of general cultural and professional competencies, capable and ready for independent professional activity" and corresponds to the mission, strategic development plan of the Astana Medical University. The objectives of the EP "7M05101-Biology" are determined on the basis of the following regulatory documents: National Qualification Framework, SES "Postgraduate Education", approved by order of the Minister of Education and Science of the Republic of Kazakhstan dated 10/31/2018 N 604 (as amended and supplemented on 07/23/2021), "On approval of the Rules for organizing the educational process on credit technology of education" No. 563 of October 12, 2018 and internal documents of the university.

The structure of the EP reflects the expected learning outcomes after completing the assimilation of the educational program, which reflect the qualification levels and key competencies of the graduate. In accordance with GOSO, each cycle of disciplines consists of a mandatory component and an optional component. The ratio, measurement and accounting of mandatory and optional components is regulated by the SES. Regarding the elective component, the university has the opportunity to independently determine the trajectory of the educational program, and students can independently choose disciplines in accordance with scientific and personal interests.

The university has developed and approved the University Standard "Educational Programs: Development, Evaluation and Update", according to which the current and future needs of the market are determined, the potential training market is analyzed and evaluated, and the university's capabilities for the implementation of the EP are analyzed.

The validity of the EP is proved by positive monitoring of the satisfaction of employers with EP graduates, the results of a student survey, an analysis of the current progress of students, and employment monitoring. Since the EP "7M05101-Biology" did not produce graduates, the validity is proved by the questionnaire and the performance of undergraduates (according to the results of the final assessment - 3.89).

External examination of the Development Plans of the OP "7M05101-Biology" was carried out by scientists and specialists of the Republic of Kazakhstan. Employers are also involved in the development and adjustment of the EP during professional internships. However, it is recommended to involve international experts for external expertise of the Development Plans.

EP "7M05101-Biology" corresponds to level No. 7 of the NQF RK dated March 16, 2016 [https://online.zakon.kz/Document/?doc\\_id=37482171&pos=6;-106#pos=6;-106](https://online.zakon.kz/Document/?doc_id=37482171&pos=6;-106#pos=6;-106).

Upon graduation, the graduate must be competent in the field of scientific research methodology, scientific and scientific-pedagogical activities in educational institutions, in modern educational technologies, in the implementation of scientific projects and research in the professional field, in ways to ensure constant updating of knowledge, expanding professional skills and abilities. Professional qualifications developed by the Institute of Radiobiology and Radiation Protection are also used.

The EP "7M05101-Biology" is represented by basic (35 ECTS credits) and specialized (49 ECTS credits) modules, undergraduate research work (24 ECTS credits), final state certification (6 ECTS credits), preparation and defense of a master's thesis (6 credits). ECTS). Optional modules are also provided to provide individual educational trajectories at the request of employers and undergraduates and are developed by leading teachers of the department. It is considered that a master's student completed his education in the EP "7M05101-Biology", with a set of 120 ECTS credits, of which 52 credits of theoretical training, 32 credits of practice, 24 credits of SRRM and 12 credits of final certification. The educational program "7M05101-Biology" has a modular organization. The educational program of the master's program includes two types of practices: pedagogical and research.

To obtain admission to work with sources of ionizing radiation, undergraduates pass the primary instruction on radiation safety, and also take a number of specialized courses at the Institute of Radiobiology and Radiation Protection.

Employers, students and teaching staff were involved in the development of the EP "7M05101-Biology". It is also recommended to attract undergraduates of this program, and if available, graduates of the program.

In order to ensure a logical sequence and targeted development of the relevant competencies, the names of prerequisites and postrequisites are included in the curriculum of the EP.

### ***Analytical part***

According to the standard "Development and approval of the educational program", it was revealed that the university has developed and implemented a number of provisions and procedures aimed at developing EPs and their approval at the institutional level.

The goal of the EP "7M05101-Biology" is formulated in accordance with the requirements of state education standards, market needs, the mission and strategy of the university, the requests of employers and the wishes of students. The structure of the EP complies with the requirements of GOSO.

External expertise of the EP Development Plans was carried out by scientists and specialists of the Republic of Kazakhstan, however, it is also recommended to involve international experts.

A list of competencies and skills upon completion of the EP "7M05101-Biology" is presented.

It is recommended to involve students of the EP "7M05101 Biology" as well as other interested parties in the development of this EP.

***Strengths / best practice in EP "7M05101 Biology»:***

- Availability of provisions and procedures aimed at the development of EPs and their approval at the institutional level.
- Development of EP "7M05101 Biology" by scientists of the Institute of Radiobiology and Radiation Protection

***Recommendations for EP "7M05101 Biology»:***

- It is recommended to involve international experts for external expertise of the Development Plans of the OP "7M05101 Biology". Deadline: 2022-2023 academic year.
- Involvement of students of the EP "7M05101 Biology" as well as other interested parties in the development of the EP, ensuring its quality. Deadline: 2022-2023 academic year.

***EEC conclusions by criteria:***

In general, according to the Standard "Development and approval of the educational program", the activities of the university in the framework of the educational program "7M05101 Biology" meet the criteria.

Quantitative indicators reflecting the compliance of the organization with the criteria of the Standard are as follows:

Strong - 0  
Satisfactory - 10  
Suggest improvements - 2  
Unsatisfactory – 0

**6.4. Standard "Continuous monitoring and periodic evaluation of educational programs»**

- ✓ The PA should determine the mechanisms for monitoring and periodically evaluating the EP to ensure the achievement of the goal and meeting the needs of students, society and show the focus of the mechanisms on the continuous improvement of the EP
- ✓ Monitoring and periodic evaluation of the EP should include:
  - ✓ the content of the programs in the light of the latest achievements of science in a particular discipline to ensure the relevance of the discipline taught;
  - ✓ changes in the needs of society and the professional environment;
  - ✓ workload and academic performance of students;
  - ✓ the effectiveness of student assessment procedures;
  - ✓ expectations, needs and satisfaction of students with EP training;
  - ✓ educational environment and support services, and their compliance with the objectives of the EP
- ✓ The management of the EP must demonstrate a systematic approach in monitoring and periodically assessing the quality of the EP
- ✓ OO, management of the EP should determine a mechanism for informing all interested parties about any planned or taken actions in relation to the EP
- ✓ All changes made to the EP must be published

***Evidence***

NJSC "MUA" participates in the procedures of external institutional and software quality assurance, and also annually participates in international and national institutional ratings. In 2021, the university took 7th place among the universities of the Republic of Kazakhstan, according to the results of the National Rating of Demand.

The results of work within the framework of the EP "7M05101 Biology" are analyzed at meetings of the specialized department, as well as the Institute of Radiobiology and Radiation Protection, where students and employers are invited. Suggestions for improving the EP are sent to employers for review. The final version of the updates is submitted to the COC "Master and Doctoral Studies". Further, proposals are considered at meetings of the COC OP, COC University



and approved by the Academic Council of the University. Catalogs of elective disciplines are updated annually. At all stages of discussions, teaching staff, students, employers, and other interested parties are involved. According to the survey of teaching staff, 96.4% of the respondent are satisfied with the support of the leadership in the development of new educational programs / academic disciplines / teaching methods.

When updating the study program, the achievements of science are taken into account: in the 2021-2022 academic year, the discipline "General Radiobiology" was introduced. Also, all undergraduates of this EP perform individual scientific work with practical application on the basis of the Institute of Radiobiology and Radiation Protection. Monitoring of progress (100% for the last session) and the quality of knowledge (average score - 3.89) is carried out by faculties, the center of master's and doctoral studies. Based on the results of the first semester, 3 undergraduates in EP receive an increased scholarship. Undergraduates of the EP "7M05101 Biology" participated in international scientific conferences, and undergraduate Khazipova A. was awarded a 2nd level diploma for participating in an international conference of students and young scientists.

When evaluating the EP, an analysis of the content of courses and teaching methods is carried out based on the results of the survey. According to the survey, 73.8% of students are satisfied with the structuring of the courses, and 94.6% of the teaching staff are satisfied with the attention of the university management to the content of the educational program. According to the survey, 71.2% of students are satisfied with the academic load / requirements for students, and 79.3% of teaching staff are satisfied with the academic load. According to a survey of students, 76.3% of the respondents are satisfied with the objectivity of assessing knowledge, skills and other academic achievements, and 74.4% are satisfied with the academic achievement assessment system that reflects the content of the course.

The university has a mechanism for informing all interested parties about any planned and taken actions in relation to the EP. An important role in the distribution of information is played by the university's web portal, which provides information about the EP, information about scientific activities and contact details of the teaching staff. Proposals and recommendations for making changes to the OP can be sent through the website or expressed during meetings of collegiate bodies. According to a survey of students, 78.1% of the respondent are satisfied with informing students about courses, educational programs, and academic degrees.

The management of the EP "7M05101 Biology" implements continuous monitoring of the EP based on determining the needs for changing the content of the EP, including the wishes of employers (expert opinions), students (surveys), the period of decay of competencies (development of modern branches of biology), the demands of the modern labor market (questionnaires of employers).

### ***Analytical part***

According to the standard "Continuous monitoring and periodic evaluation of educational programs", it was revealed that the university has developed and implemented mechanisms for monitoring and periodic evaluation of the EP "7M05101 Biology". The stages of making changes to the EP are also determined based on the results of scientific research and the demands of the labor market. When updating the EP, stakeholders of various levels are involved.

Since the main research work of undergraduates is carried out on the basis of the Institute of Radiobiology and Radiation Protection, there is an individual approach to the scientific activities of students, using the results in practice. Research results are published and reported at scientific conferences.

The teaching staff and students are satisfied with the attitude of the governing bodies to the issues of updating the EP, their participation in the development of the EP, as well as the applied forms of knowledge assessment.

The university provides timely publication of information in the public domain about the study program, changes in the study program and other useful information.

***Strengths / best practice in EP "7M05101 Biology»:***

- All undergraduates of this EP perform actual individual scientific work with practical application on the basis of the Institute of Radiobiology and Radiation Protection.
- Multi-level approval of changes and additions to the EP with the participation of interested parties.

***Recommendations for EP "7M05101 Biology»:***

For OP "7M05101 Biology" there are no recommendations for this Standard.

***EEC conclusions by criteria:***

In general, according to the Standard "Continuous monitoring and periodic evaluation of educational programs", the activity of the university within the framework of the educational program "7M05101 Biology" meets the criteria.

Quantitative indicators reflecting the compliance of the organization with the criteria of the Standard are as follows:

Strong - 1

Satisfactory - 9

Suggest improvements - 0

Unsatisfactory – 0

***6.5. Student-Centered Learning, Teaching and Assessment Standard***

- The management of the EP should ensure respect and attention to different groups of students and their needs, provide them with flexibility in learning paths.
- The management of the EP should provide for the use of various forms and methods of teaching and learning.
- An important factor is the presence of own research in the field of teaching methods of academic disciplines of the EP.
- The management of the EP should demonstrate the existence of feedback mechanisms on the use of various teaching methods and the assessment of learning outcomes.
- The management of the EP must demonstrate the existence of mechanisms to support the autonomy of students with simultaneous guidance and assistance from the teacher.
- The management of the EP must demonstrate the existence of a procedure for responding to complaints from students.
- The PA must ensure consistency, transparency and objectivity of the mechanism for assessing the learning outcomes of the EP, including the appeal
- The PA must ensure that the procedures for assessing the learning outcomes of students of the EP correspond to the planned results and goals of the program, the publication of criteria and assessment methods in advance
- The PA should define the mechanisms to ensure the achievement of learning outcomes by each EP graduate and ensure the completeness of their formation
- Assessors must be proficient in modern methods for assessing learning outcomes and regularly improve their skills in this area

***Evidence***

The guidelines of the EP "7M05101 Biology" provide equal opportunities for students, regardless of the language of instruction (Kazakh or Russian), gender, individual educational program, and other criteria. The master's educational program is developed in accordance with the regulatory laws of the Ministry of Education and Science of the Republic of Kazakhstan and is aimed at group learning. However, an individual trajectory of undergraduates is provided, depending on personal interests or labor market demands, by choosing elective disciplines. The catalog of elective disciplines is offered by the specialized department and is constantly updated. Individual characteristics, needs are also taken into account when choosing the base of practices that are available at the department, however, undergraduates can choose other bases on their own by concluding a 3-party agreement between the undergraduate, the enterprise and the university. When determining the topics of master's theses, individual characteristics, needs are taken into account, based on the inclinations and interests of students. According to the survey, 77.8% of students believe that equal opportunities are provided to all students. A very important aspect is



the small number of undergraduates in the group (1 group - 4 people, 1 group - 1 person), which provides an opportunity to provide an individual approach for each undergraduate.

The university creates the necessary conditions for the application of modern technologies and teaching methods within the framework of a student-centered approach with practice-oriented training of students. Over the past 5 years, 72% of the teaching staff of the University were trained in modern teaching methods, incl. from the departments implementing the training of specialists in the educational program of the master's program "Biology". Along with classical teaching methods (lectures, training in small groups, practical and laboratory classes), new technologies are used (student - centered learning). The university uses 4 categories of pedagogical learning technologies: innovative technologies, simulation technologies, active forms of learning and E-learning technologies. At the beginning of the academic year, all interested teaching staff and departments submit a plan for the introduction of new educational technologies in the educational process. Monitoring of the effectiveness and efficiency of the application of new educational technologies in the educational process is carried out by the TEC and DT by attending classes and giving feedback. According to the survey, 99.1% of teaching staff are satisfied with the opportunity to use their own innovations in the learning process, while 68% of students are satisfied with teaching methods in general.

Within the framework of the EP "7M05101 Biology" the following innovative teaching methods are used: modeling methods, E-learning, reference signs, mind maps / Mind maps, computer-interactive training programs, writing projects, using electronic textbooks.

As a result of the use of new pedagogical learning technologies, the teacher often acts as a tutor.

In 2020, the University opened a professional multimedia content recording studio, where various multimedia content is recorded for the implementation of blended learning, including electronic textbooks, thematic videos - lectures and practical classes, 3-D videos, etc. Finished materials are uploaded to the LMS of the University and You Tube channels of the departments.

Research in the field of biology teaching methodology is of an integrative nature, which provides for the inclusion of students in the EP to study biological and medical disciplines. The teaching staff is involved in the development of their own methodological materials, which are presented by methodological guidelines for preparing for practical classes, self-study, textbooks, teaching aids.

According to the "Introduction of new educational technologies" standard, performers must test the introduction of new educational technologies in the educational process for a period of at least one semester, with subsequent monitoring. Periodically, the discipline is assessed and the personal and professional qualities of the teacher are assessed based on the results of an anonymous survey. Within the framework of the EP "7M05101 Biology", the disciplines were rated 4.7-5 points, and the personal and professional qualities of teachers of these disciplines were rated 4.5-5 points.

The management of the EP provides autonomy and support for students in the development of the EP. At the departments, advisors are allocated to supervise the activities of undergraduates in compliance with the principle of privacy. Under the guidance of experienced specialists, each undergraduate performs his own scientific work.

To make suggestions, comments and complaints, there is a blog of the rector, as well as the hours of reception by the rector of visitors on personal issues weekly on Thursday and Friday from 17.00-19.00. It is also possible to transfer information via e-mail. 76.4% of students are satisfied with the level of accessibility and responsiveness of the university management. Undergraduates of the EP "7M05101 Biology" did not file any complaints.

A student who does not agree with the results of the exam has the opportunity to file an appeal in accordance with the established regulation. To resolve the appeal, by order of the head of the university, an appeal commission is created from among the teachers of the corresponding profile.

The work performed by undergraduates is divided into 2 types - independent work, the role of which is increasing, and work under the guidance of a teacher. Monitoring of independent work of students is carried out through current, intermediate and final controls. The student's independent work makes up two thirds of the total labor intensity of the course being studied and includes work with literary sources, analysis of results, and preparation of materials. Proper organization of classroom and independent work of students allows avoiding excessive overload of undergraduates.

The management of the EP guarantees transparency, objectivity, accuracy and adequacy of knowledge assessment. The level of educational achievements of students in each module (discipline) is determined by the final grade, formed from the rating of the admission rating and the assessment of the final control, the proportion of which is respectively 60% and 40%. The transparency of the evaluation is guaranteed by AIS PLATONUS. Information about the assessment system is provided in syllabuses that students have, as well as additional information about the assessment system is presented in the personal accounts of students in AIS PLATONUS.

### ***Analytical part***

According to the standard "Student-centered learning, teaching and assessment of progress", it was revealed that the university has developed and implemented mechanisms that provide equal opportunities for students. The presence of a small number of undergraduates in the group provides an individual approach to learning.

Along with classical teaching methods, Student-centered learning is widely used. The teaching methods used are evaluated positively by both the teaching staff and the students. The university has a professional studio for recording multimedia content.

The university assesses the discipline and assesses the personal and professional qualities of the teacher.

Experienced specialists supervise the implementation of individual research work.

The university has developed and implemented an appeals system.

The University guarantees transparency, objectivity, accuracy and adequacy of knowledge assessment.

### ***Strengths / best practice in EP "7M05101 Biology»:***

- The presence of small groups, which provides an opportunity to provide an individual approach for each undergraduate.
- Performing individual studies under the guidance of experienced professionals.

### ***Recommendations for EP "7M05101 Biology»:***

For OP "7M05101 Biology" there are no recommendations for this Standard.

### ***EEC conclusions by criteria:***

In general, according to the Standard "Student-Centered Learning, Teaching and Assessment", the activity of the university within the framework of the educational program "7M05101 Biology" meets the criteria.

Quantitative indicators reflecting the compliance of the organization with the criteria of the Standard are as follows:

Strong - 2

Satisfactory - 8

Suggest improvements - 0

Unsatisfactory – 0

### 6.6. Standard "Students"

- *OO must demonstrate the existence of a policy for the formation of a contingent of students in the context of the EP, ensure transparency and publicity of its procedures governing the life cycle of students (from admission to completion)*
- *The management of the EP should determine the procedure for the formation of a contingent of students based on:*
  - *minimum requirements for applicants;*
  - *the maximum size of the group during seminars, practical, laboratory and studio classes;*
  - *predicting the number of state grants;*
  - *analysis of available material and technical, information resources, human resources;*
  - *analysis of potential social conditions for students, incl. provision of places in the hostel*
- *The management of the EP must demonstrate readiness to conduct special adaptation and support programs for newly enrolled and foreign students*
- *The PA must demonstrate the compliance of its actions with the Lisbon Recognition Convention, the existence of a mechanism for recognizing the results of academic mobility of students, as well as the results of additional, formal and non-formal learning*
- *The PA should cooperate with other educational organizations and national centers of the "European Network of National Information Centers for Academic Recognition and Mobility / National Academic Recognition Information Centers" ENIC / NARIC in order to ensure comparable recognition of qualifications*
- *The PA should provide an opportunity for external and internal mobility of students of the EP, as well as readiness to assist them in obtaining external grants for training*
- *The management of the EP must demonstrate readiness to provide students with places of practice, to promote the employment of graduates, to maintain contact with them.*
- *The PA should provide for the possibility of providing EP graduates with documents confirming the qualifications received, including the achieved learning outcomes, as well as the context, content and status of the education received and evidence of its completion*

#### **Evidence**

The policy of forming a contingent of students of NJSC "MUA" OP "7M015101-Biology" is determined by the number of grants for training in the master's program allocated by the Ministry of Education and Science of the Republic of Kazakhstan. Persons who have mastered the professional training programs of higher education - bachelor's degree - are admitted to the magistracy. The contingent is formed from persons who have passed a comprehensive exam at the national testing center (a foreign language, a test for readiness for learning and a test in a specialty) and passed through the competition for training under the state educational order, as well as persons whose tuition is paid at the expense of citizens' own funds and other sources. The university does not have the opportunity to influence the selection of the contingent. Also, a master student must have all the prerequisites. In the absence, applicants submit prerequisites established by the university. The first enrollment for the master's degree program 7M 05101 "Biology" in 2021-2022 was carried out in the academic year under the state order - 5 people.

The university adheres to the principles of ECTS, according to which one academic year corresponds to 60 ECTS points, which allows organizing academic mobility. Undergraduates of EP 7M 05101 "Biology" did not participate in academic mobility. All internships and academic mobility are tentatively scheduled for the 3rd semester. The University is looking for partner universities for academic mobility and scientific internships for undergraduates. The Institute of Radiobiology and Radiation Protection conducts research activities within the framework of which a Memorandum was signed between the University of Tsukuba, Japan and NJSC "MUA", cooperation with the USA, Canada, Great Britain, Germany, France, Russia is being carried out. Currently, at the stage of concluding an agreement with the International Atomic Energy Agency

(IAEA), approval has been received. It is recommended to strengthen the work in order to organize academic mobility within the framework of the master's degree program 7M 05101 "Biology".

According to the Policy of International Cooperation, NJSC "MUA" cooperates with 56 foreign universities on the basis of concluded memorandums of understanding, contracts, agreements on international cooperation. The University has developed regulations on the transfer of students and academic mobility. When transferring students, the difference in disciplines and hours is determined, which determines the course of the transfer of the student. The procedure and terms for eliminating the difference in the disciplines of the curriculum are drawn up by the deans of the faculties / the head of the center by issuing orders. After the Chairman of the Board-Rector issues the transfer order, an agreement is concluded between the transferred student and the University. A student on a paid basis, transferred from another university, pays for tuition in accordance with the contract for the provision of paid educational services.

Undergraduates in EP 7M 05101 "Biology" have two types of practices: pedagogical and research. Students are provided with internship places. Pedagogical practice is carried out on the basis of the Department of General Biology and Genomics of the MUA. L.N. Gumilyov. Research practice is organized at the place of dissertation research for mastering the necessary skills and performing research, as a rule, at the Institute of Radiobiology and Radiation Protection.

The university is working to promote the employment of future graduates by studying the labor market, searching for vacancies, and cooperating with representatives of enterprises and organizations. If questions arise in making career decisions, the student can seek help from the department responsible for employment, the practice and employment center, or use the information about vacancies on the website of the electronic labor exchange.

The university provides graduates with documents confirming the qualifications received, including the achieved learning outcomes in the form of a diploma and a transcript to it. The transcript contains a list of completed disciplines indicating the code of the discipline, the number of credits, the grade received.

#### ***Analytical part***

According to the "Students" standard, it was determined that the contingent of students is formed without the participation of the university. For admission, the applicant must have all the prerequisites, or pass within the allotted time.

Despite the fact that the university adheres to the principles of ECTS and is ready to organize academic mobility, undergraduates of EP 7M 05101 "Biology" are not involved in academic mobility due to the lack of contracts with partner universities.

The university has developed regulations on the transfer of students and academic mobility, which describes the conditions and stages.

The university provides two types of practices: pedagogical and research.

The university is involved in the employment of future graduates.

Upon completion of training, the university provides graduates with documents confirming the qualifications received.

#### ***Strengths / best practice in EP "7M05101 Biology»:***

- Opportunity to conduct internship at the university: pedagogical practice on the basis of the Department of General Biology and Genomics of the MUA, and research practice on the basis of the Institute of Radiobiology and Radiation Protection.

#### ***Recommendations for EP "7M05101 Biology»:***

- Provide internal and external academic mobility for undergraduates of the EP. Deadline: 2022-2023 academic year.

#### ***EEC conclusions by criteria:***



In general, according to the Standard "Students", the activity of the university within the framework of the educational program "7M05101 Biology" meets the criteria.

Quantitative indicators reflecting the compliance of the organization with the criteria of the Standard are as follows:

Strong - 1

Satisfactory - 10

Suggest improvements - 1

Unsatisfactory – 0

### 6.7. Standard "Teaching Staff"

- The PA must have an objective and transparent personnel policy, including in the context of the EP, including recruitment, professional growth and development of personnel, ensuring the professional competence of the entire staff
- The PA must demonstrate the compliance of the staff potential of the teaching staff with the specifics of the EP
- The management of the EP must demonstrate awareness of responsibility for its employees and provide them with favorable working conditions
- The EP management should demonstrate the change in the role of the teacher in connection with the transition to student-centered learning
- The PA must determine the contribution of the teaching staff of the EP to the implementation of the development strategy of the PA, and other strategic documents
- The PA should provide opportunities for career growth and professional development of the teaching staff of the EP
- The management of the EP must demonstrate readiness to involve practitioners in the relevant sectors of the economy in teaching
- OO must demonstrate the motivation for the professional and personal development of EP teachers, including encouragement for the integration of scientific activities and education, the use of innovative teaching methods
- An important factor is the willingness to develop academic mobility within the framework of the EP, attracting the best foreign and domestic teachers

### **Evidence**

The policy of the personnel base of NJSC "MUA" is reflected in the documents: Personnel policy, approved by the decision of the Board of August 20, 2020 No. 23, "Rules of internal labor regulations of NJSC "MUA", order No. 24-n / κ dated 20.01.2021 " On the distribution of duties, as well as the scope of authority and responsibility between the members of the Board of the NJSC "Astana Medical University", "Rules for the formation of a regulation on a structural unit", "Rules for the formation of a job description", job descriptions of employees, a map of the process "Personnel Management", "Code of Corporate culture and ethics", approved by the decision of the Board of Directors dated September 8, 2012 No. 8.

The recruitment of teachers for work is carried out through a competition for filling vacant positions of teaching staff, the procedure for which is regulated by the Rules for the competitive filling of positions of professors and teachers and researchers of NJSC "MUA" and job descriptions. The recruitment policy is aimed at ensuring the implementation of the educational program, and the number of teaching staff is determined by the total volume of the teaching load. The university guarantees equal employment opportunities.

At the university, the total number of teaching staff in the reporting year is 1577 employees. The staffing of the teaching staff is 100%, the share of full-time teachers is 59.1%. The university analyzes the qualitative and quantitative composition of the teaching staff. More than half of the teaching staff have scientific titles and degrees, which indicates a high pedagogical and professional level of teachers.

A large percentage of teachers are graduates of NJSC "MUA", which confirms the preservation of the traditions of the university.

The university uses various methods to motivate teaching staff, such as a system of cash bonuses, material assistance to teachers for publications in the most rated scientific journals and participation in conferences, congresses, congresses, symposiums. For young teachers, there are special training programs for new pedagogical technologies, joint research and organization of publications of young teachers with leading professors of the university, as well as financial



resources allocated to young scientists for participation in conferences, advanced training programs, etc. According to the results of a survey of teaching staff, 92.8% of respondents are satisfied with the opportunities provided by the university for advanced training.

Specialists from the Institute of Radiobiology and Radiation Protection, who have extensive experience in organizing research work, are authors of significant scientific publications, and have experience in projects, including international ones, are involved in the process of preparing undergraduates of EP 7M 05101 "Biology". 2 undergraduates are involved in the implementation of scientific projects.

The teaching staff is trained to use modern teaching / learning methods, including the use of computer technology. Teachers have the opportunity to use the potential of the Multimedia Electronic Textbook Studio.

Starting from 2019, a new remuneration system has been used, according to which there was an increase in the salaries of employees due to a reduction in administrative and managerial staff by 25%. As part of the new remuneration system, there was an increase in official salaries: for the teaching staff - from 120% to 201%, for teaching and support staff (laboratory assistants) - by 123%, for administrative staff - from 56% to 144%. There is also an additional payment for teaching staff for teaching in English, for the provision of paid educational services, for conducting scientific supervision of doctoral students, undergraduates. According to the results of the survey, 85.6% of the teaching staff are satisfied with the conditions of remuneration.

Teaching staff participate in the implementation of the development strategy of the university, and other strategic documents as part of working groups.

The university provides teaching staff with equal opportunities for continuous professional development in their careers, which are consistent with and contribute to the achievement of the mission and goals of the university. The capacity building of the teaching staff was carried out according to the accumulative system in the context of 5 key competencies: effective teacher, researcher/scientist, communication skills, leader/organizer, and professional. For the organization of groups for advanced training, applications are submitted at the level of departments. The duration of courses on pedagogical competence is from 2 to 4 credits, at the end of which students who successfully complete the course are issued a document confirming the training. Every year, for young / new teachers, an introductory module of the cycle of the school of the young teacher "Teacher of medical organizations of education and science" is held. Also, courses are organized annually to study the Kazakh, English and French languages.

Educational events are held both within the university and with the invitation of foreign lecturers.

In the process of teaching within the framework of OP 7M 05101 "Biology", practitioners of the relevant branches of biology are not sufficiently involved.

At the beginning of each academic year, a department work plan is drawn up, as well as an individual work plan for the teaching staff, which includes the following types of activities: educational, training, methodological, medical (for clinical departments), research, advanced training consistently in five competencies. At the end of the year, according to the results obtained, the nominations "Best Department", "Best Teacher", "Best Scientist", "Best Innovator" are played.

To ensure optimal modern training of undergraduates, it is recommended to involve leading foreign experts.

### ***Analytical part***

According to the "Teaching Staff" standard, it was determined that the policy of the university's personnel base is based on numerous provisions developed on the basis of recommendations. The recruitment of teaching staff is carried out on a competitive basis in compliance with the principles of equality. The university provides personnel replenishment at the expense of its graduates.

In the preparation of undergraduates of EP 7M 05101 "Biology" the potential of specialists from the Institute of Radiobiology and Radiation Protection, who have rich scientific experience, is used.

The teaching staff has opportunities for professional and career growth.

The university provides incentives, including financial ones, for distinguished employees. There are special programs for young employees.

Insufficiently, practitioners from relevant branches of biology are involved in the process of preparing undergraduates.

Every year an individual work plan of the teaching staff and the work plan of the department is drawn up.

Currently, the potential of foreign leading specialists is not used in the preparation of undergraduates.

***Strengths / best practice in EP "7M05101 Biology»:***

- - Preparation of teaching staff from among the graduates of NJSC "MUA".
- - Using the potential of employees of the Institute of Radiobiology and Radiation Protection in the training of specialists in OP 7M 05101 "Biology».

***Recommendations for EP "7M05101 Biology»:***

- - Involvement in teaching practitioners of relevant branches of biology. Deadline: 2022-2023 academic year.
- - Involvement of foreign leading experts in teaching. Deadline: 2022-2023 academic year.

***EEC conclusions by criteria:***

In general, according to the Standard "Teaching staff", the activities of the university in the framework of the educational program "7M05101 Biology" meet the criteria.

Quantitative indicators reflecting the compliance of the organization with the criteria of the Standard are as follows:

Strong - 2

Satisfactory - 5

Suggest improvements - 2

Unsatisfactory – 0

**6.8. Standard "Educational resources and student support systems"**

- OO must guarantee a sufficient number of educational resources and student support services to ensure the achievement of the goal of the EP

- OO must demonstrate the sufficiency of material and technical resources and infrastructure, taking into account the needs of various groups of students in the context of the EP (adults, working, foreign students, as well as students with disabilities)

- The management of the EP must demonstrate the existence of procedures for supporting various groups of students, including informing and consulting

- The EP management must demonstrate the compliance of information resources with the specifics of the EP, including:

- technological support for students and teaching staff (for example, online learning, modeling, databases, data analysis programs);

- library resources, including a fund of educational, methodical and scientific literature on general education, basic and major disciplines on paper and electronic media, periodicals, access to scientific databases;

- examination of the results of research, final works, dissertations for plagiarism;

- access to educational Internet resources;

- WI-FI functioning on the territory of the educational organization.

- OO demonstrates the planning of providing EP with educational equipment and software similar to those used in the relevant sectors of the economy

***Evidence***

NJSC "MUA" has a developed material and technical base for conducting educational and scientific and educational processes in the OP "7M05101 Biology", which consists of information resources, library stock and material and technical equipment. An important

component is the Institute of Radiobiology and Radiation Protection, which provides scientific practice, as well as the implementation of research work for undergraduates. The laboratories of the Institute are equipped with modern equipment, which guarantees access for undergraduates. The potential of the research pharmacological laboratory of the Department of General Pharmacology is also used. The departments are equipped with computers, laptops, office equipment and other technical teaching aids, each undergraduate has the opportunity for independent access to information.

The University provides a safe environment for staff and students. Every year, information and compliance with safety regulations at the workplace are carried out, all buildings have fire alarms, briefings are held, there is an evacuation plan on each floor, there are shields with fire fighting equipment. Each department has safety journals where students sign after getting acquainted with safety precautions. At the moment, there are no persons with special needs among the undergraduates of the EP "7M05101 Biology".

The buildings and dormitories of the University are connected to the Wi-Fi network, which allows mobile devices to have access to the network and ensures the maximum data transfer rate. The educational process uses AIS "Platonus", a distance education portal for students, a distance education portal for advanced training and retraining, a distance education portal for an abbreviated form of education. Teachers and students are given corporate logins and passwords to enter these systems.

Distance learning is supported by the Cisco Webex and Teams platforms. The computer park is divided into departments in the form of computer classes.

The university ensures openness towards students and provides support in all matters. WhatsApp groups have been created to communicate on various issues. A center for youth and sports has been established at the university. However, the university lacks a structure for psychological support and counseling for students and staff.

The university has its own library (<http://bibl.amu.kz/>) with a total area of 2269.3 sq.m. There are 4 subscriptions, 2 reading rooms, and 28 computers with Internet access. The volume of the book and magazine fund is 483,386 copies. educational, educational and methodical, scientific literature in the state, Russian and foreign languages, in the state language 131813 copies; electronic textbooks - 10,257 copies; scientific literature - 122,272 copies, fiction - 4,405, periodicals - 9,634 copies. The database of textbooks of the Center is 361,114 copies, which is 74% of the book fund today. The scientific fund is formed in accordance with the profile of the university. The volume of the book fund for the educational program of the master's program "Biology" is 1884 units, of which the educational fund is 1073 in Kazakh, 16 in Russian and 795 in English. Access to the following electronic databases is available:

SCOPUS - <https://www.scopus.com>

ELSEVIER – <https://www.elsevier.com>

OXFORD UNIVERSITY PRESS – <https://global.oup.com>

EPIGRAPH – <https://epigraph.kz>

SPRINGER – <https://www.springer.com>

EBSCO cinal- <https://web.p.ebscohost.com>

Since the practical work of undergraduates of the EP "7M05101 Biology" is carried out mainly at the Institute of Radiobiology and Radiation Protection, the working conditions are close to those that will be used upon graduation.

### ***Analytical part***

According to the standard "Educational resources and student support systems", it was recorded that the university has a well-developed modern material and technical base for conducting educational and scientific-educational processes in the OP "7M05101 Biology".

The university has all the conditions to ensure a safe environment for employees and students.

The university ensures openness in resolving student issues. At the same time, there is no unit for psychological support and counseling where students and employees can apply.

The university has its own library with sufficient funds to support the educational process. Access to modern international electronic databases is provided.

The conditions for the preparation of undergraduates of the EP are close to the conditions of the corresponding sectors of the economy.

***Strengths / best practice in EP "7M05101 Biology»:***

- The presence of a well-developed material and technical base for conducting educational and scientific and educational processes.

***Recommendations for EP "7M05101 Biology»:***

- It is recommended to create a Center for psychological support and counseling for students and employees. Deadline: 2023-2024 academic year.

***EEC conclusions by criteria:***

In general, according to the Standard "Educational Resources and Student Support Systems", the activity of the university within the framework of the educational program "7M05101 Biology" meets the criteria.

Quantitative indicators reflecting the compliance of the organization with the criteria of the Standard are as follows:

Strong - 1

Satisfactory - 7

Suggest improvements - 1

Unsatisfactory – 0

**6.9. Public Information Standard**

✓ *The PA must publish reliable, objective, up-to-date information about the educational program and its specifics, which should include:*

- ✓ *expected learning outcomes of the implemented educational program;*
- ✓ *qualifications and (or) qualifications that will be awarded upon completion of the educational program;*
- ✓ *approaches to teaching, learning, as well as a system (procedures, methods and forms) of assessment;*

- ✓ *information about passing scores and learning opportunities provided to students;*

- ✓ *Information about employment opportunities for graduates.*

✓ *The management of the EP should provide for a variety of ways to disseminate information, including the media, information networks to inform the general public and interested parties.*

✓ *Informing the public should include support and explanation of national programs for the development of the country and the system of higher and postgraduate education.*

✓ *OO must demonstrate the reflection on the web resource of information that characterizes it as a whole and in the context of educational programs.*

✓ *An important factor is the availability of adequate and objective information about the teaching staff of the EP.*

✓ *An important factor is informing the public about cooperation and interaction with partners within the OP.*

***Evidence***



According to the developed information policy, when distributing its information, the University adheres to the principles of efficiency, accessibility, relevance, reliability and regularity of information. The main source of information is the web portal.

For the EP "7M05101 Biology", the necessary operational information is located on the website, in the "Postgraduate education" section, in the "Master's" block. The site contains information about the qualifications that will be awarded upon completion, teaching and learning approaches, information about passing scores, information about job opportunities for graduates. The information is updated with the assistance of the Center for Master's and Doctoral Studies, the Institute of Radiobiology and Radiation Protection.

In addition to the web portal, social networks are used to disseminate information:

Facebook: <https://www.facebook.com/MeduniverAstana/>

Instagram: [https://www.instagram.com/amu\\_mua\\_official/](https://www.instagram.com/amu_mua_official/)

YouTube: <https://www.youtube.com/channel/UCxoJTRfEXwroix0wub6ZvQQ>

Telegram: <https://t.me/amuedukz>

University publications, in addition to their own information, publish information provided by higher authorities.

Information about the various components that provide the OP is located on different pages. Information about the teaching staff is placed in the section "Faculties and Departments". Information about the Institute of Radiobiology and Radiation Protection is available in the "Science" section. Important new information will be published in the "News" section. Information about partners is also provided.

#### ***Analytical part***

According to the Public Information standard, it should be noted that the university has developed a new version of the web portal, which is the main source of public information. Information on OP "7M05101 Biology" is freely available. Social media is also used.

#### ***Strengths / best practice in EP "7M05101 Biology»:***

There are no strengths for OP "7M05101 Biology" according to this Standard

#### ***Recommendations for EP "7M05101 Biology»:***

For OP "7M05101 Biology" there are no recommendations for this Standard.

#### ***EEC conclusions by criteria:***

In general, according to the Public Information Standard, the activity of the university within the framework of the educational program "7M05101 Biology" meets the criteria.

Quantitative indicators reflecting the compliance of the organization with the criteria of the Standard are as follows:

Strong - 0

Satisfactory - 10

Suggest improvements - 0

Unsatisfactory – 0

## **(VII) OVERVIEW OF STRENGTHS/BEST PRACTICE FOR EACH STANDARD**

**For OP "7M05101 Biology»:**

**According to the standard "Management of the educational program»:**

- Existence of a Quality Assurance Policy that reflects the relationship between research, teaching and learning.
- Involvement of undergraduates in individual research work.
- Availability of the Institute of Radiobiology and Radiation Protection as a research base.
- Availability of an internal quality assurance system for the EP.
- Planning the opening of the EP "Biology".
- Training of teaching staff in the field of management in the field of education.

**According to the standard "Information management and reporting»:**

- Availability of regulatory documents for the implementation of information management processes.
- The updated web portal provides free access to a variety of information about the university and educational programs.
- The information security system ensures the safety of personal data.
- Availability of provisions and procedures aimed at the development of EPs and their approval at the institutional level.
- Development of EP "7M05101 Biology" by scientists of the Institute of Radiobiology and Radiation Protection

**According to the standard "Continuous monitoring and periodic evaluation of educational programs»:**

- All undergraduates of this EP perform actual individual scientific work with practical application on the basis of the Institute of Radiobiology and Radiation Protection.
- Multi-level approval of changes and additions to the EP with the participation of interested parties.

**According to the standard "Student-centered learning, teaching and assessment of academic performance»:**

- The presence of small groups, which provides an opportunity to provide an individual approach for each undergraduate.
- Performing individual studies under the guidance of experienced professionals.

**According to the standard "Students»:**

- Possibility of internship at the university: pedagogical practice on the basis of the Department of General Biology and Genomics of the MUA, and research practice on the basis of the Institute of Radiobiology and Radiation Protection.

**According to the standard "Teaching staff»:**

- Preparation of teaching staff from among the graduates of NJSC "MUA".
- Using the potential of employees of the Institute of Radiobiology and Radiation Protection in the training of specialists in OP 7M 05101 "Biology».

**According to the standard "Educational resources and student support systems»:**

- The presence of a well-developed material and technical base for conducting educational and scientific and educational processes.

**According to the standard "Informing the public»:**

There are no strengths for OP "7M05101 Biology" according to this Standard.

**(VIII) OVERVIEW OF QUALITY IMPROVEMENT RECOMMENDATION FOR EACH STANDARD**

**For OP "7M05101 Biology»:**

**According to the standard "Management of the educational program»:**

- Involvement of representatives of stakeholder groups, including employers, students and teaching staff, as well as international experts in the field of medical education, strategic partners, in the process of developing the EP, quality assurance for peer review, analysis and updating of the components of the EP. Deadline: 2022-2023 academic year.

**According to the standard "Information management and reporting»:**

For OP "7M05101 Biology" there are no recommendations for this Standard.

**According to the standard "Development and approval of the educational program»:**

- It is recommended to involve international experts for external expertise of the Development Plans of the OP "7M05101 Biology". Deadline: 2022-2023 academic year.
- Involvement of students of the EP "7M05101 Biology" as well as other interested parties in the development of the EP, ensuring its quality. Deadline: 2022-2023 academic year.

**According to the standard "Continuous monitoring and periodic evaluation of educational programs»:**

For OP "7M05101 Biology" there are no recommendations for this Standard.

**According to the standard "Student-centered learning, teaching and assessment of academic performance»:**

For OP "7M05101 Biology" there are no recommendations for this Standard.

**According to the standard "Students»:**

- Provide internal and external academic mobility for undergraduates of the EP. Deadline: 2022-2023 academic year.

**According to the standard "Teaching staff»:**

- Involvement in teaching practitioners of relevant branches of biology. Deadline: 2022-2023 academic year.
- Involvement of foreign leading experts in teaching. Deadline: 2022-2023 academic year.

**According to the standard "Educational resources and student support systems»:**

- It is recommended to create a Center for psychological support and counseling for students and employees. Deadline: 2023-2024 academic year.

**According to the standard "Informing the public»:**

For OP "7M05101 Biology" there are no recommendations for this Standard.

**(IX) OVERVIEW OF THE RECOMMENDATION FOR THE DEVELOPMENT OF  
EDUCATIONAL INSTITUTION**

**(X) RECOMMENDATION TO THE ACCREDITATION BOARD**

The members of the EEC came to the unanimous opinion that the educational program of the master's program "7M05101 Biology" implemented by NJSC "Astana Medical University" is recommended for accreditation for a period of 5 years.





**Annex 1. Evaluation table "Conclusion of the external expert commission»**

№ p/p	№ p/p	Criteria for evaluation	Position of the educational organization			
			strong	Satisfactory	Assumes improvement	Unsatisfactory
Standard "Management of the educational program"						
1	1.	The organization of higher and (or) postgraduate education must have a published quality assurance policy. The quality assurance policy should reflect the relationship between research, teaching and learning.		+		
2	2.	The organization of higher and (or) postgraduate education must demonstrate the development of a culture of quality assurance, including in the context of EP.		+		
3	3.	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.		+		
4	4.	The management of the EP demonstrates its readiness to ensure transparency in the development of the EP development plan based on an analysis of its functioning, the real positioning of the EP and the focus of its activities on meeting the needs of the state, employers, students and other stakeholders. The plan should contain the dates for the start of the implementation of the educational program.		+		
5	5.	The EP management demonstrates the existence of mechanisms for the formation and regular revision of the EP development plan and monitoring its implementation, assessing the achievement of learning goals, meeting the needs of students, employers and society, making decisions aimed at continuous improvement of the EP.		+		
6	6.	The EP management should involve representatives of stakeholder groups, including employers, students and teaching staff in the formation of the EP development plan.			+	
7	7.	The management of the EP must demonstrate the individuality and uniqueness of the EP development plan, its consistency with national priorities and the development strategy of the organization of higher and (or) postgraduate education.	+			
8	8.	The organization of higher and (or) postgraduate education must demonstrate a clear definition of those responsible for business processes within the EP, an unambiguous distribution of staff duties, and delimitation of the functions of collegial bodies.		+		
9	9.	The management of the EP must provide evidence of the transparency of the educational program management system.		+		
10	10.	The management of the EP must demonstrate the existence of an internal quality assurance system for the EP, including its design, management and monitoring, their improvement, decision-making based on facts.		+		
11	11.	The management of the EP must carry out risk management, including within the framework of the EP undergoing primary accreditation, and also demonstrate a system of measures aimed at reducing the degree of risk.		+		
12	12.	The management of the EP should ensure the participation of representatives of employers, teaching staff, students and other interested parties in the collegiate management bodies of the educational program, as well as their representativeness in making decisions on the management of the educational program.		+		
13	13.	The OO must demonstrate innovation management within the EP, including the analysis and implementation of innovative proposals.	+			
14	14.	The management of the EP must demonstrate evidence of readiness for openness and accessibility for students, teaching staff, employers and other interested parties.		+		
15	15.	The management of the EP should be trained in education management programs.		+		

Total by standard			2	12	1	0
Information Management and Reporting Standard						
16	1.	The OO must demonstrate the existence of a system for collecting, analyzing and managing information based on the use of modern information and communication technologies and software tools and that it uses a variety of methods to collect and analyze information in the context of the EP.		+		
17	2.	The management of the EP must demonstrate the existence of a mechanism for the systematic use of processed, adequate information to improve the internal quality assurance system.		+		
18	3.	The management of the EP must demonstrate fact-based decision making.		+		
19	4.	Within the framework of the EP, a system of regular reporting should be provided, reflecting all levels of the structure, including an assessment of the effectiveness and efficiency of the activities of departments and departments, scientific research.		+		
20	5.	The PA must establish the frequency, forms and methods for assessing the management of the EP, the activities of collegial bodies and structural divisions, top management, and the implementation of scientific projects.		+		
21	6.	The TOE must demonstrate the determination of the procedure for and ensuring the protection of information, including the identification of persons responsible for the reliability and timeliness of the analysis of information and the provision of data.		+		
22	7.	An important factor is the availability of mechanisms for involving students, employees and teaching staff in the processes of collecting and analyzing information, as well as making decisions based on them.		+		
23	8.	The management of the EP must demonstrate the existence of a mechanism for communication with students, employees and other interested parties, as well as mechanisms for resolving conflicts.		+		
24	9.	The PA must demonstrate the existence of mechanisms for measuring the degree of satisfaction with the needs of teaching staff, staff and students within the framework of the EP.		+		
25	10.	The PA should provide for an assessment of the effectiveness and efficiency of activities, including in the context of the EP.		+		
		<i>The information expected to be collected and analyzed within the framework of the EP should take into account:</i>				
26	11.	key performance indicators;		+		
27	12.	the dynamics of the contingent of students in the context of forms and types;		+		
28	13.	academic performance, student achievement and dropouts;		+		
29	14.	satisfaction of students with the implementation of the EP and the quality of education at the university;		+		
30	15.	availability of educational resources and support systems for students		+		
31	16.	The PA must confirm the implementation of the procedures for processing personal data of students, employees and teaching staff on the basis of their documented consent		+		
Total by standard			0	16	0	0
Standard "Development and approval of the educational program"						
32	1.	The OO must define and document the procedures for developing the EP and their approval at the institutional level.		+		
33	2.	The management of the EP should ensure that the developed EP complies with the established goals, including the intended learning outcomes		+		
34	3.	The management of the EP must demonstrate the existence of mechanisms for reviewing the content and structure of the EP, taking into account changes in the labor market, the requirements of employers and the social demand of society		+		
35	4.	The management of the EP should ensure the availability of developed models of the EP graduate that describe the learning outcomes and personal qualities		+		

36	5.	The management of the EP must demonstrate the conduct of external reviews of the content of the EP and the planned results of its implementation			+	
37	6.	The qualification awarded upon completion of the EP must be clearly defined and correspond to a certain level of the NSC and QF-EHEA		+		
38	7.	The EP management should determine the influence of disciplines and professional practices on the formation of learning outcomes		+		
39	8.	An important factor is the possibility of preparing students for professional certification		+		
40	9.	The management of the EP must provide evidence of the participation of students, teaching staff and other stakeholders in the development of the EP, ensuring their quality			+	
41	10.	The management of the EP should ensure that the content of the academic disciplines and the planned results correspond to the level of education (bachelor's, master's, doctoral studies)		+		
42	11.	The structure of the EP should provide for various types of activities that ensure that students achieve the planned learning outcomes		+		
43	12.	An important factor is the correspondence between the content of the EP and the learning outcomes of the EP implemented by organizations of higher and (or) postgraduate education in the EHEA		+		
<b>Total by standard</b>			<b>0</b>	<b>10</b>	<b>2</b>	<b>0</b>
<b>Standard "Continuous monitoring and periodic evaluation of educational programs"</b>						
44	1.	The PA should determine the mechanisms for monitoring and periodically evaluating the EP to ensure the achievement of the goal and meeting the needs of students, society, and show the focus of the mechanisms on the continuous improvement of the EP		+		
		<i>Monitoring and periodic evaluation of the EP should include:</i>				
45	2.	the content of the programs in the light of the latest achievements of science in a particular discipline to ensure the relevance of the discipline taught;	+			
46	3.	changes in the needs of society and the professional environment;		+		
47	4.	workload and student achievement;		+		
48	5.	the effectiveness of student assessment procedures;		+		
49	6.	expectations, needs and satisfaction of students with EP training;		+		
50	7.	educational environment and support services, and their compliance with the objectives of the EP		+		
51	8.	The management of the EP must demonstrate a systematic approach in monitoring and periodically assessing the quality of the EP		+		
52	9.	The OO, the management of the EP should determine a mechanism for informing all interested parties about any planned or taken actions in relation to the EP		+		
53	10.	All changes made to the OP must be published		+		
<b>Total by standard</b>			<b>1</b>	<b>9</b>	<b>0</b>	<b>0</b>
<b>Student-Centered Learning, Teaching and Assessment Standard</b>						
54	1.	The management of the EP should ensure respect and attention to different groups of students and their needs, provide them with flexibility in learning paths.	+			
55	2.	The management of the EP should provide for the use of various forms and methods of teaching and learning.		+		

56	3.	An important factor is the presence of own research in the field of teaching methods of academic disciplines of the EP.		+		
57	4.	The management of the EP should demonstrate the existence of feedback mechanisms on the use of various teaching methods and the assessment of learning outcomes.		+		
58	5.	The management of the EP should demonstrate the existence of mechanisms to support the autonomy of students with simultaneous guidance and assistance from the teacher.	+			
59	6.	The management of the EP must demonstrate the existence of a procedure for responding to complaints from students.		+		
60	7.	The PA must ensure the consistency, transparency and objectivity of the mechanism for assessing the learning outcomes of the EP, including the appeal		+		
61	8.	The PA must ensure that the procedures for assessing the learning outcomes of students of the EP correspond to the planned results and goals of the program, the publication of criteria and assessment methods in advance		+		
62	9.	The PA should define the mechanisms to ensure the achievement of learning outcomes by each EP graduate and ensure the completeness of their formation.		+		
63	10.	Assessors must be familiar with modern methods for assessing learning outcomes and regularly improve their skills in this area.		+		
<b>Total by standard</b>			<b>2</b>	<b>8</b>	<b>0</b>	<b>0</b>
<b>Standard "Students"</b>						
64	1.	The PA must demonstrate the existence of a policy for the formation of a contingent of students in the context of the EP, ensure transparency and publicity of its procedures governing the life cycle of students (from admission to completion)		+		
		<i>The management of the EP should determine the procedure for the formation of a contingent of students based on:</i>				
65	2.	minimum requirements for applicants;		+		
66	3.	the maximum size of the group when conducting seminars, practical, laboratory and studio classes;		+		
67	4.	predicting the number of government grants;		+		
68	5.	analysis of available material, technical, information resources, human resources;		+		
69	6.	analysis of potential social conditions for students, incl. provision of places in the hostel		+		
70	7.	The management of the EP must demonstrate readiness to conduct special adaptation and support programs for newly enrolled and foreign students		+		
71	8.	The PA must demonstrate the compliance of its actions with the Lisbon Recognition Convention, the existence of a mechanism for recognizing the results of academic mobility of students, as well as the results of additional, formal and non-formal learning		+		
72	9.	The PA should cooperate 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		+		
73	10.	The PA should provide an opportunity for external and internal mobility of students of the EP, as well as readiness to assist them in obtaining external grants for training			+	
74	11.	The management of the EP must demonstrate readiness to provide students with internship places, promote the employment of graduates, and maintain contact with them.	+			
75	12.	The PA should provide for the possibility of providing graduates of the EP with documents confirming the qualifications received, including the achieved learning outcomes, as well as the context, content and status of the education received and evidence of its completion.		+		
<b>Total by standard</b>			<b>1</b>	<b>10</b>	<b>1</b>	<b>0</b>
<b>Standard "Teaching Staff"</b>						



76	1.	The PA must have an objective and transparent personnel policy, including in the context of the EP, including recruitment, professional growth and development of personnel, ensuring the professional competence of the entire staff	+			
77	2.	The PA must demonstrate the compliance of the staff potential of the teaching staff with the specifics of the EP	+			
78	3.	The management of the EP must demonstrate awareness of responsibility for its employees and provide favorable working conditions for them		+		
79	4.	The management of the EP should demonstrate the change in the role of the teacher in connection with the transition to student-centered learning		+		
80	5.	The PA must determine the contribution of the teaching staff of the EP to the implementation of the development strategy of the PA, and other strategic documents		+		
81	6.	The PA should provide opportunities for career growth and professional development of the teaching staff of the EP		+		
82	7.	The management of the EP must demonstrate readiness to involve practitioners in the relevant sectors of the economy in teaching			+	
83	8.	The PA must demonstrate the motivation for the professional and personal development of EP teachers, including encouragement for the integration of scientific activities and education, the use of innovative teaching methods		+		
84	9.	An important factor is the readiness to develop academic mobility within the framework of the EP, to attract the best foreign and domestic teachers			+	
<b>Total by standard</b>			<b>2</b>	<b>5</b>	<b>2</b>	<b>0</b>
<b>Standard "Educational resources and student support systems"</b>						
85	1.	The OO must guarantee a sufficient number of educational resources and student support services to ensure the achievement of the goal of the EP		+		
86	2.	The OO must demonstrate the sufficiency of material and technical resources and infrastructure, taking into account the needs of various groups of students in the context of the EP (adults, working, foreign students, as well as students with disabilities)	+			
87	3.	The management of the EP must demonstrate the existence of procedures for supporting various groups of students, including information and counseling			+	
		<i>The EP management must demonstrate the compliance of information resources with the specifics of the EP, including:</i>				
88	4.	technological support for students and teaching staff (for example, online learning, modeling, databases, data analysis programs);		+		
89	5.	library resources, including a fund of educational, methodical and scientific literature on general education, basic and major disciplines on paper and electronic media, periodicals, access to scientific databases;		+		
90	6.	examination of the results of research, final works, dissertations for plagiarism;		+		
91	7.	access to educational Internet resources;		+		
92	8.	functioning of WI-FI on the territory of the educational organization.		+		
93	9.	The OO demonstrates the planning of providing the EP with educational equipment and software similar to those used in the relevant sectors of the economy		+		
<b>Total by standard</b>			<b>1</b>	<b>7</b>	<b>1</b>	<b>0</b>
<b>Public Information Standard</b>						
		<i>The PA must publish reliable, objective, up-to-date information about the educational program and its specifics, which should include:</i>				
94	1.	expected learning outcomes of the educational program being implemented;		+		

95	2.	qualification and (or) qualifications that will be awarded upon completion of the educational program;		+		
96	3.	approaches to teaching, learning, as well as a system (procedures, methods and forms) of assessment;		+		
97	4.	information about passing scores and learning opportunities provided to students;		+		
98	5.	information about employment opportunities for graduates.		+		
99	6.	The management of the EP should provide for a variety of ways to disseminate information, including the media, information networks to inform the general public and interested parties.		+		
100	7.	Informing the public should include support and explanation of national programs for the development of the country and the system of higher and postgraduate education.		+		
101	8.	The OO must demonstrate the reflection on the web resource of information that characterizes it as a whole and in the context of educational programs.		+		
102	9.	An important factor is the availability of adequate and objective information about the teaching staff of the EP.		+		
103	10.	An important factor is informing the public about cooperation and interaction with partners within the framework of the OP.		+		
<b>Total by standard</b>			<b>0</b>	<b>10</b>	<b>0</b>	<b>0</b>
<b>TOTAL</b>			<b>9</b>	<b>87</b>	<b>7</b>	<b>0</b>

## **Annex 2. PROGRAM OF THE VISIT TO THE EDUCATIONAL INSTITUTION**

### **PROGRAM VISIT (HYBRID FORMAT) OF THE EXTERNAL EXPERT COMMISSION INDEPENDENT ACCREDITATION AND RATING AGENCY (IAAR) IN NJSC "ASTANA MEDICAL UNIVERSITY" (INTERNATIONAL SPECIALIZED ACCREDITATION)**

**Date of the visit: May 24-26, 2022 (Nur-Sultan time)**

<b>№</b>	<b>Educational programs</b>
<b>1 cluster</b>	
<b>1</b>	<b>7R01106 Pediatric oncology and hematology (primary accreditation)</b>
<b>2</b>	<b>7R01133 Medical genetics (primary accreditation)</b>
<b>3</b>	<b>7R01122 Plastic surgery for adults, children (primary accreditation)</b>
<b>2 cluster</b>	
<b>4</b>	<b>7M05101 Biology (primary accreditation)</b>
<b>3 cluster</b>	
<b>5</b>	<b>6B10107 General medicine</b>
<b>6</b>	<b>6B10108 Dentistry</b>
<b>4 cluster</b>	
<b>7</b>	<b>7R01136 General surgery</b>
<b>8</b>	<b>7R01107 Pulmonology for adults, children</b>
<b>5 cluster</b>	
<b>9</b>	<b>7M10101 Nursing</b>

Date and time	EEC work with target groups	Position and Last name, first name, patronymic of target group participants	Contact form
23 May 2022			
20.00-21.00	Preliminary meeting of the EEC	External IAAR experts	Link <a href="https://us02web.zoom.us/j/3892931765?pwd=TK9MYWptb2dnV0lYMm1oN0Q0dEhSdz09">https://us02web.zoom.us/j/3892931765?pwd=TK9MYWptb2dnV0lYMm1oN0Q0dEhSdz09</a>  Conference ID: 389 293 1765 (only for VEC)
Day 1: May 24, 2022			
10.00-10.30	Distribution of responsibility of experts, solution of organizational issues	External IAAR experts	Link <a href="https://us02web.zoom.us/j/3892931765?pwd=TK9MYWptb2dnV0lYMm1oN0Q0dEhSdz09">https://us02web.zoom.us/j/3892931765?pwd=TK9MYWptb2dnV0lYMm1oN0Q0dEhSdz09</a>  Conference ID: 389 293 1765 (only for VEC)
10.30 – 11.10	Interview with the rector	Rector of JSC "Astana Medical University" - Nadyrov Kamalzhan Talgatovich	Room 415, 4th floor, main building, st. Beibitshilik 49 A  Link <a href="https://us02web.zoom.us/j/3892931765?pwd=TK9MYWptb2dnV0lYMm1oN0Q0dEhSdz09">https://us02web.zoom.us/j/3892931765?pwd=TK9MYWptb2dnV0lYMm1oN0Q0dEhSdz09</a>  Conference ID: 389 293 1765
11.10-11.25	Technical break		
11.25-12.05	Meeting with vice-rectors	1) Vice-Rector for Academic Affairs - Bukeeva Zhanar Kanalbaevna; 2) Vice-Rector for Research - Vitaliy Viktorovich Koikov; 3) Vice-rector for clinical work - Kosherova Bakhyt Nurgalieva; 4) Vice-rector for financial, economic and administrative work - Maradzhapov Bakhtiyor Irkinovich	Room 415, 4th floor, main building, st. Beibitshilik 49 A  Link <a href="https://us02web.zoom.us/j/3892931765?pwd=TK9MYWptb2dnV0lYMm1oN0Q0dEhSdz09">https://us02web.zoom.us/j/3892931765?pwd=TK9MYWptb2dnV0lYMm1oN0Q0dEhSdz09</a>  Conference ID: 389 293 1765
12.05-12.20	Technical break		
12.20-13.00	Meeting with the heads of structural divisions of the NGO	1) Director of the Department for Clinical Activities Akpolatova Gulnur Momynovna 2) Director of the Department of Research Activities Tuleshova Gulnar Turekhanovna 3) Director of the Department of Financial Activities and Infrastructure Development Mayra Kushimbekovna Belgibaeva 4) Acting Director of the Department for Academic Affairs Tlesheva Nurgul Serikovna 5) Deputy Director of the Department of Financial Activities and Infrastructure Development Zhunusov Rustem Zhainakovich 6) Director of the Department of Internal Administration - Dosymov Bolat Zhandosovich 7) Head of the Center for Strategic Development - Doskhozina Gulnar Nigmatzhanovna 8) Head of the Center for International Cooperation - Bilan Liliya Ivanovna	Room 401, 4th floor, main building, st. Beibitshilik 49 A  Link <a href="https://us02web.zoom.us/j/3892931765?pwd=TK9MYWptb2dnV0lYMm1oN0Q0dEhSdz09">https://us02web.zoom.us/j/3892931765?pwd=TK9MYWptb2dnV0lYMm1oN0Q0dEhSdz09</a>  Conference ID: 389 293 1765

		9) <i>Head of the Center for Clinical Activities - Kazbekova Ainagul Talgatovna</i> 10) <i>Head of the practice and employment center - Omurzakova Aiman Sabyrbekovna</i> 11) <i>Acting head of the educational and clinical center - Shaimerdenova Aliya Zhasulanovna</i> 12) <i>Head of office-registrar - Tleshova Nurgul Serikovna</i> 13) <i>Head of the center for academic activities - Utenova Gulnur Magauyanovna</i> 14) <i>Head of the center for the transfer of educational and distance technologies - Abduldaeva Aigul Abduldaevna</i> 15) <i>Head of the Center for Youth and Sports - Nurbek Nurfazylovich Musrepov</i> 16) <i>Head of HR department - Zikenov Igor Irsainovich</i> 17) <i>Head of the press service - Akbasova Gaukhar Kuanyshevna</i> 18) <i>Head of the center for support of publications and library services - Kenzhegulova Nazira Zhumaliyevna</i> 19) <i>Head of the Center "Electronic University" - Karshalova Zarina Baurzhanovna</i> 20) <i>Head of Information Technology Department - Zhenis Asygat Amankeldyuly</i> 21) <i>Head of the Accreditation and Rating Center - Zhilkibaeva Karlygash Tulegenovna</i>		
<b>13.00-14.00</b>	<b>Dinner</b>			
<b>14.00-14.15</b>	EEC work	<i>External IAAR experts</i>		Link <a href="https://us02web.zoom.us/j/3892931765?pwd=TK9MYWptb2dnV01YMm1oN0Q0dEhSdz09">https://us02web.zoom.us/j/3892931765?pwd=TK9MYWptb2dnV01YMm1oN0Q0dEhSdz09</a> Conference ID: 389 293 1765 (only for VEC)
<b>14.15-15.00</b>	Interviews with deans	1.4 cluster 2,3,5 cluster	<i>Head of the internship and residency center - Syzdykova Ainura Sailaubaevna</i> <i>Dean of the Faculty of Medicine - Makhambetov Kaergeldy Ombaevich</i> <i>Dean of the Faculty of Dentistry - Karibzhanov Aitbek Anuarbekovich</i> <i>Head of the Center for Master's and Doctoral Studies - Kulmirzaeva Aizhan Bakhtzhanovna</i>	Room 415, 4th floor, main building, st. Beibitshilik 49 a  Link <a href="https://us02web.zoom.us/j/3892931765?pwd=TK9MYWptb2dnV01YMm1oN0Q0dEhSdz09">https://us02web.zoom.us/j/3892931765?pwd=TK9MYWptb2dnV01YMm1oN0Q0dEhSdz09</a> Conference ID: 389 293 1765
<b>15.00-15.15</b>	Technical break			



<p><b>15.15-16.00</b></p>	<p>Interviews with the leaders of the EP, heads of departments</p>	<p>1.4 cluster 2,3,5 cluster</p>	<p>7R01107 Pulmonology for adults, children 1. Head of the Department of Internal Medicine with courses in gastroenterology, endocrinology and pulmonology - Ainabekova Bayan Alkenovna 2. Head of the Department of Family Medicine No. 2 - Latypova Natalya Aleksandrovna 3. Head of the Department of Internal Diseases No. 4 - Tuganbekova Saltanat Kenesovna 4. Head of the Department of Internal Medicine with the course of Nephrology, Hematology, Allergology and Immunology - Rakhmetova Venera Sametovna 7R01106 Pediatric oncology and hematology 5. Head of the Department of Children's Diseases with courses in Allergology, Hematology and Endocrinology - Morenko Marina Alekseevna 7R01136 General surgery 6. Head of the Department of Surgical Diseases with Courses of Cardiothoracic Surgery and CSF - Kozhakhmetov Saken Kairullinovich 7. Head of the Department of Surgical Diseases with Courses of Plastic and Angiosurgery - Omarbekov Ardak Zharylkasynovich 8. Head of the Department of Surgical Diseases with Courses of Neurosurgery and Bariatrics - Aleksandr Borisovich Fursov</p>	<p>Room 401, 4th floor, main building, st. Beibitshilik 49 a</p> <p>Link <a href="https://us02web.zoom.us/j/3892931765?pwd=TK9MYWptb2dnV01YMmloN0Q0dEhSdz09">https://us02web.zoom.us/j/3892931765?pwd=TK9MYWptb2dnV01YMmloN0Q0dEhSdz09</a></p> <p>Conference ID: 389 293 1765</p>
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			<p>7R01133 Medical genetics</p> <p>9. Head of the Department of Medical Genetics and Molecular Biology - Altaeva Nursulu Zakiriyevna</p> <p>7R01122 Plastic surgery, adult, pediatric</p> <p>10. Head of the Department of Surgical Diseases with Courses of Angiosurgery and Plastic Surgery - Omarbekov Ardak Zharylkasynovich</p> <p>6B10107 General medicine</p> <p>11. Head. Department of General Medical Practice with a course of evidence-based medicine - Derbisalina Gulmira Azhmadinovna;</p> <p>12 .. Head of the Department of Family Medicine No. 1 - Abisheva Saule Tleubaevna;</p> <p>13. Head of the Department of Emergency First Aid, Resuscitation and Pediatric Anesthesiology - Nurila Amangaliyevna Maltabarova;</p> <p>14. Head of the Department of Obstetrics and Gynecology No. 1 - Khamidulina Zaytuna Gadilovna;</p> <p>15. Head of the Department of Normal Physiology - Khamchiev Koreysh Mavlovich;</p> <p>16. Head of the Department of Internal Diseases with a course of geriatrics - Viktor Alekseevich Tkachev;</p> <p>17. Head of the Department of Pathological Anatomy - Manekenova Kenzhegul Boranbaevna;</p> <p>18. Head of the Department of Children's Diseases with courses in pulmonology and</p>	
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		<p>nephrology -  Muldakhmetov  Meiram  Seitzhanovich;  19. Head of the  Department of Human  Anatomy - Almabaeva  Aigul Ydrysova  6B10108 Dentistry  20. Head of the  Department of  Orthopedic and  Pediatric Dentistry -  Eslyamgalieva Ardak  Manapovna  21. Head of the  Department of  Therapeutic and  Surgical - Sumanova  Aigul Makhsatovna  7M05101 Biology  22. Director of the  Institute of  Radiobiology and  Radiation Protection -  Kazymbet Polat  Kazymbetuly  23. Head of the  Department of  Microbiology and  Virology. Sh.I.  Sarbasov -  Dusmagambetov  Marat Uteuovich  24. Head of the  Department of  Medical Genetics and  Molecular Biology -  Altaeva Nursulu  Zakiriyaevna  7M10101 Nursing  25. Head of the  Department of  Nursing - Saltabaeva  Ulbosyn Sheralievna</p>	
16.00-16.15	Technical break		
16.15-17.00	Interview with teaching staff OP	1.4 cluster (Appendix 1. List of teaching staff)	Room 401, 4th floor, main building, st. Beibitshilik 49 a  Link <a href="https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMm1oN0Q0dEhSdz09">https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMm1oN0Q0dEhSdz09</a>  Conference ID: 389 293 1765 Access code: 334352
		2,3,5 cluster (Appendix 2. List of teaching staff)	Coworking, 3rd floor, st. Beibitshilik 53  Link <a href="https://us02web.zoom.us/j/9623882483">https://us02web.zoom.us/j/9623882483</a>  Conference ID: 962 388 2483
17.00-18.30	Questioning of teaching staff (in parallel)	(Appendix 3. List of teaching staff with email addresses)	The link is sent to the e-mail of the teacher personally

17.00-17.15	Technical break		
17.15-17.40		Support Center for Publications and Library Services Kenzhegulova Nazira Zhumalievna	Library (1-3 floor) st. Beibitshilik, 53  Link <a href="https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMm1oN0Q0dEhSdz09">https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMm1oN0Q0dEhSdz09</a>  Conference ID: 389 293 1765 Access code: 334352
17.40-18.05	Visual inspection of the TOE	Training and Clinical Center Shaimerdenova Aliya Zhasulanovna	Training and Clinical Center st. Beibitshilik, 49a, 5th floor, office No. 506  Link <a href="https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMm1oN0Q0dEhSdz09">https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMm1oN0Q0dEhSdz09</a>  Conference ID: 389 293 1765 Access code: 334352
18.05-18.30		Institute of Radiobiology and Radiation Protection, main building	7th floor, main building, st. Beibitshilik, 49a  Link <a href="https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMm1oN0Q0dEhSdz09">https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMm1oN0Q0dEhSdz09</a>  Conference ID: 389 293 1765 Access code: 334352
18.30-18.40	WEC work. Summing up the first day	<i>External IAAR experts</i>	Link <a href="https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMm1oN0Q0dEhSdz09">https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMm1oN0Q0dEhSdz09</a>  Conference ID: 389 293 1765 Access code: 334352 (only for VEK)
<b>Day 2: May 25, 2022</b>			
10.00-10.15	EEC work	<i>External experts IAAR</i>	Link <a href="https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMm1oN0Q0dEhSdz09">https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMm1oN0Q0dEhSdz09</a>  Conference ID: 389 293 1765 Access code: 334352 (only for VEC)
10.15-10.30	Technical break		
10.30-11.10	Interviews with EP students (in parallel)	1.4 cluster (Annex 4)	Room 401, 4th floor, main building, st. Beibitshilik 49 a Link <a href="https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMm1oN0Q0dEhSdz09">https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMm1oN0Q0dEhSdz09</a>  Conference ID: 389 293 1765 Access code: 334352
		2,3,5 cluster (Annex 5)	Coworking, 3rd floor, st. Beibitshilik 53 Link <a href="https://us02web.zoom.us/j/9623882483">https://us02web.zoom.us/j/9623882483</a>  Conference ID: 962 388 2483



11.10-12.30	Questionnaire of students (in parallel)	(Annex 6)		The link is sent to the e-mail of the teacher personally
11.10-11.25	Technical break			
11.25-13.00	Work with the documents of the departments and attendance of teaching staff classes according to the schedule (Appendix 7 with links to classes)	1,4 cluster	<b>7R01122 Plastic surgery for adults, children, 7R01136 General surgery Department of Surgical Diseases with courses in angiosurgery and plastic surgery Omarbekov Ardak Zharylkasynovich</b>	1.4 cluster Link <a href="https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV01YMm1oN0Q0dEhSdz09">https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV01YMm1oN0Q0dEhSdz09</a> Conference ID: 389 293 1765 Venue: GKP on REM "Multiprofile City Hospital No. 1", Rakymzhan Koshkarbaev Avenue, 66 Department of Surgical Diseases with courses in angiosurgery and plastic surgery
			<b>7R01133 Medical genetics Department of Medical Genetics and Molecular Biology Altaeva Nursulu Zakiriyaevna</b>	st. Beibitshilik 49, 3rd floor room 306
			<b>7R01136 General surgery Department of Surgical Diseases with courses in cardiothoracic surgery and PCS Kozhakhmetov Saken Kayrullinovich</b>	GKP on REM "City multidisciplinary hospital No. 2", Turar Ryskyllov koshesi 6
			<b>7R01106 Pediatric oncology and hematology Department of Children's Diseases with courses in Allergology, Hematology and Endocrinology Morenko Marina Alekseevna</b>	GKP on REM "Multiprofile City Children's Hospital No. 1", Tauelsizdik St. 11/1
			<b>7R01107 Pulmonology for adults, children Department of Internal Medicine with courses in gastroenterology, endocrinology and pulmonology Ainabekova Bayan Alkenovna</b>	Department of Internal Medicine with courses in gastroenterology, endocrinology and pulmonology. State Institution "Central Hospital with a Polyclinic of the Ministry of Internal Affairs of the Republic of Kazakhstan", Kabanbay Batyr Avenue, 66 GKP on REM "City multidisciplinary hospital No. 2", Turar Ryskyllov koshesi 6

			<p>2,3,5 cluster Link <a href="https://us02web.zoom.us/j/9623882483">https://us02web.zoom.us/j/9623882483</a></p> <p>Conference ID: 962 388 2483</p> <p><b>6B10107 General medicine</b> Department of Family Medicine №2 Latypova Natalya Alexandrovna</p> <p>Head of the Department of General Medical Practice with a Course of Evidence-Based Medicine Venue: st. Beibitshilik 49, 3rd floor (session)</p> <p>Department of Human Anatomy 33 Saryarka Ave. (class)</p> <p>Family Health Center "Shipager", st. Hussein bin Talal 25/1</p>
		2,3,5 cluster	<p><b>6B10108 Dentistry</b> Department of Orthopedic and Pediatric Dentistry Eslyamgalieva Ardak Manapovna Department of Therapeutic and Surgical Dentistry Sumanova Aigul Makhsatovna</p> <p>33 Saryarka Avenue, 4th floor, room 424</p> <p>33 Saryarka Avenue, 4th floor, room 411</p>
			<p><b>7M05101 Biology</b> Institute of Radiobiology and Radiation Protection Kazymbet Polat Kazymbetuly</p> <p>Institute of Radiobiology and Radiation Protection, main building, st. Beibitshilik, 49a, 7th floor</p>
			<p><b>7M10101 nursing</b> Department of Nursing Saltabaeva Ulbosyn Sheralieva</p> <p>Main building, st. Beibitshilik, 49a, 6th floor, room 619 (class)</p> <p>Multidisciplinary city hospital №3, Moldagulova 26 B</p>
13.00-14.00	Dinner		
14.00-14.15	EEC work	External IAAR experts	<p>Link <a href="https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMmloN0Q0dEhSdz09">https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMmloN0Q0dEhSdz09</a></p> <p>Conference ID: 389 293 1765 Access code: 334352 (only for VEC)</p>
14.15-14.30	Technical break		
14.30-16.00	Visiting the practice bases of the EP	<p><b>6B10107 General medicine</b> <b>GKP on REM "City polyclinic No. 10 of the Akimat of Nur-Sultan", Department of Family Medicine No. 3</b></p> <p>GKP on REM "Multi-profile city children's hospital No. 2, Department of Pediatric Diseases with Courses in Cardiorheumatology and Gastroenterology</p> <p>GKP on REM "Multiprofile City Hospital No. 1", Department of Internal Medicine with a course of Nephrology, Hematology, Allergology and Immunology</p> <p><b>6B10108 Dentistry</b> Educational and clinical center "Dentistry" Department of Orthopedic and Pediatric Dentistry</p>	<p>Shaimerden Kosshyguly st., 8</p> <p>st. Koshkarbaeva 64</p> <p>st. Koshkarbaeva 64</p> <p>st. Auezov, 44 Link <a href="https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMmloN0Q0dEhSdz09">https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMmloN0Q0dEhSdz09</a></p>

		Conference ID: 389 293 1765 Access code: 334352
	<i>Main Military Clinical Hospital of the Ministry of Defense of the Republic of Kazakhstan Department of Therapeutic and Surgical Dentistry</i>	Beibitshilik street, 47a Link <a href="https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMmloN0Q0dEhSdz09">https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMmloN0Q0dEhSdz09</a> Conference ID: 389 293 1765 Access code: 334352
	<i>Dental clinic "Akmarzhan" Department of Therapeutic and Surgical Dentistry</i>	st. K. Amanzholova, 28 Link <a href="https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMmloN0Q0dEhSdz09">https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMmloN0Q0dEhSdz09</a> Conference ID: 389 293 1765 Access code: 334352
	<i>Dental clinic "Empire Dental Clinic" Department of Therapeutic and Surgical Dentistry</i>	st. M.Narikbaeva, 22 Link <a href="https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMmloN0Q0dEhSdz09">https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMmloN0Q0dEhSdz09</a> Conference ID: 389 293 1765 Access code: 334352
	<b>7R01122 Plastic surgery for adults, children,</b> <i>GKP on REM "Multiprofile City Hospital No. 1", Department of Surgical Diseases with courses in angiosurgery and plastic surgery</i>	avenue Rakymzhan Koshkarbaev, 66 Link <a href="https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMmloN0Q0dEhSdz09">https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMmloN0Q0dEhSdz09</a> Conference ID: 389 293 1765 Access code: 334352
	<b>7R01133 Medical genetics</b> JSC "National Scientific Medical Center", <i>Department of Medical Genetics and Molecular Biology</i>	Ave. Abylai Khan 42 Link <a href="https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMmloN0Q0dEhSdz09">https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMmloN0Q0dEhSdz09</a> Conference ID: 389 293 1765 Access code: 334352
	<b>7R01136 General surgery</b> <i>GKP on REM "Multiprofile City Hospital No. 1", Department of Surgical Diseases with courses in angiosurgery and plastic surgery</i>	avenue Rakymzhan Koshkarbaev, 66
	<b>7R01106 Pediatric oncology and hematology</b> <i>LLP "National Scientific Cancer Center", Department of Pediatric Diseases with courses in Allergology, Hematology and Endocrinology</i>	st. Zhanibek-kerey Khandar, 3
	<b>7R01107 Pulmonology for adults, children</b> <i>GKP on REM "Multiprofile City Hospital No. 1", Department of Pulmonology Department of Internal Medicine with courses in Nephrology, Hematology, Allergology and Immunology.</i>	avenue Rakymzhan Koshkarbaev, 66
	<i>"RESSWEE Center for Respiratory Medicine and Somnology" Department of Internal Medicine with courses in Nephrology, Hematology, Allergology and Immunology.</i>	A. Bolekpaev st. 4, LCD Tarlan.
	<i>LLP "Family Health Center "Shipager" (st. Hussein Ben Talal, 25/1) Department of Family Medicine №2.</i>	st. Hussein Ben Talal, 25/1, (Located in the building of Green clinic LLP)
	<b>7M05101 Biology</b>	st. Beibitshilik 49, 3rd floor

		<i>Department of Medical Genetics and Molecular Biology</i>	
		<i>7M10101 Сестринское дело</i> <i>Meyir Medical Center</i> <i>Department of Nursing</i>	st. E-489 d.6
<b>16.00-16.15</b>	Technical break		
<b>16.15-16.30</b>	EEC work, discussion	<i>External IAAR experts</i>	Link <a href="https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMmloN0Q0dEhSdz09">https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMmloN0Q0dEhSdz09</a>  Conference ID: 389 293 1765 Access code: 334352 (only for VEC)
<b>16.30-17.10</b>	Interviews with OP employers	<i>Representatives of employers (Appendix 8)</i>	Link <a href="https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMmloN0Q0dEhSdz09">https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMmloN0Q0dEhSdz09</a>  Conference ID: 389 293 1765 Access code: 334352
<b>17.10-17.15</b>	Technical break		
<b>17.15-18.00</b>	Interviews with graduates of the OP	<i>Application 9</i>	Link <a href="https://us02web.zoom.us/j/9623882483">https://us02web.zoom.us/j/9623882483</a>  Conference ID: 962 388 2483
<b>18.00-18.10</b>	Technical break		
<b>18.10-20.10</b>	EEC work, discussion of the results of the second day and profile parameters (recording is ongoing)	<i>External experts IAAR</i>	Link <a href="https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMmloN0Q0dEhSdz09">https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMmloN0Q0dEhSdz09</a>  Conference ID: 389 293 1765 Access code: 334352 (only for VEC)
<b>Day 3: May 26, 2022</b>			
<b>10.00-11.30</b>	The work of the EEC development and discussion of recommendations (recording)	<i>External IAAR experts</i>	Link <a href="https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMmloN0Q0dEhSdz09">https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMmloN0Q0dEhSdz09</a>  Conference ID: 389 293 1765 Access code: 334352 (only for VEC)
<b>11.30-11.45</b>	Technical break		
<b>11.45-13.00</b>	EEC work, development and recommendations	<i>External IAAR experts</i>	(Individual work of the expert)
<b>13.00-14.00</b>	<b>Dinner</b>		
<b>14.00-16.00</b>	The work of the EEC discussion, decision-making by voting (recorded)	<i>External IAAR experts</i>	Link <a href="https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMmloN0Q0dEhSdz09">https://us02web.zoom.us/j/3892931765?pwd=Tk9MYWptb2dnV0lYMmloN0Q0dEhSdz09</a>  Conference ID: 389 293 1765 Access code: 334352 (only for VEC)
<b>16.00-17.00</b>	Preparation by the chairman of information on	<i>Chairman of the WEC</i>	(Individual work of the chairman)



	the results of an external evaluation		
17.00-17.40	Final meeting of the EEC with the leadership of the university	<i>Heads of the university and structural divisions</i>	Link <a href="https://us02web.zoom.us/j/3892931765?pwd=TK9MYWptb2dnV0lYMm1oN0Q0dEhSdz09">https://us02web.zoom.us/j/3892931765?pwd=TK9MYWptb2dnV0lYMm1oN0Q0dEhSdz09</a> Conference ID: 389 293 1765 Access code: 334352
17.40-17.55	Technical break		
17.55-19.00	Work of the EEC, Discussion of the results of the quality assessment	<i>External IAAR experts</i>	Link <a href="https://us02web.zoom.us/j/3892931765?pwd=TK9MYWptb2dnV0lYMm1oN0Q0dEhSdz09">https://us02web.zoom.us/j/3892931765?pwd=TK9MYWptb2dnV0lYMm1oN0Q0dEhSdz09</a> Conference ID: 389 293 1765 Access code: 334352 (only for VEC)

### Annex 3. RESULTS OF THE PPP QUESTIONNAIRE

Total number of profiles: 111

1. Your department/faculty?

Faculty of Medicine (Faculty of Medicine)	46 (41,4%)
Faculty of Dental Medicine (Faculty of Dentistry)	34 (30,6%)
Center of internship and residency (Internship and residency center)	14 (12,6%)
Center of master and PhD (Center for Master's and Doctoral Studies)	5 (4,5%)
Department of Surgery	1 (0,9%)
nursing	1 (0,9%)
department	3 (2,7%)
Department of Surgery and Angioplasty	1 (0,9%)
Pathophysiology	1 (0,9%)
Faculty of Health	2 (1,8%)
Institute of Radiobiology and Radiation Protection	1 (0,9%)
Department of Microbiology and Virology	1 (0,9%)
Department of Internal Medicine with a course in geriatrics	1 (0,9%)

2. Your Position (Ваша должность)

Teacher (Преподаватель)	39 (31,5%)
Associate Professor (Доцент)	32 (28,8%)
Professor (Профессор)	16 (14,4%)
Senior Teacher (Старший преподаватель)	8 (7,2%)
Head of the Department (Зав. кафедрой)	7 (6,3%)
Other	9 (11,8%)

3. Academic degree, academic title (Ученая степень, ученое звание)

Honoured Worker (Заслуженный деятель)	0 (0%)
Doctor of Science (Доктор наук)	14 (12,6%)
Candidate of Science (Кандидат наук)	36 (32,4 %)
Master (Магистр)	18 (16,2%)

PhD (PhD)	9 (8,1%)
Professor (Профессор)	7 (6,3 %)
Associate Professor (Ассоциированный профессор)	14 (12,6%)
No (Нет)	32(28,8%)
Assistant	1 (0,9%)

#### 4. Work experience at this HEI (Стаж работы в данном вузе)

Over 5 years(Свыше 5 лет)	62(56,4%)
1 year-5years (1год-5лет)	28(25,5%)
Less than 1-year (менее	3(2,7%)
In the "Other" category, respondents identified:	
Over 31 years (свыше 31 лет)	2 (1,8%)
21-30 years (21-30 лет)	3 (2,7%)
15-20 years (15-20 лет)	6 (5,4%)
11-15 years (11-15 лет)	4 (3,6%)
6-10 years (6-10 лет)	2 (1,8%)

	Very well	Good	Relatively bad	Badly	Very bad
To what extent does the content of the educational program meet your needs?	40(36%)	70(63,1%)	1(0,9%)	0	0
How do you assess the opportunities that the university provides to improve the qualifications of the teaching staff?	38(34,2%)	65 (58,6%)	6(5,4%)	2(1,8%)	0
How do you assess the opportunities provided by the university for the career growth of teachers?	31(27,9%)	67(60,4%)	10 (9%)	3(2,7%)	0
How do you assess the degree of academic freedom of the teaching staff?	38(34,2%)	67(60,4%)	4(3,6%)	2(1,8%)	0
To what extent can teachers use their own strategies?	44(39,6%)	62(55,9%)	5(4,5%)	0	0
To what extent can teachers use their own methods?	58(52,3%)	52(46,8%)	1(0,9%)	0	0
To what extent can teachers use their own innovations in the learning process?	65(58,6%)	45(40,5%)	1(0,9%)	0	0
How do you assess the organization of healthcare and disease prevention at the university?	34(30,6%)	65(58,6%)	11(9,9%)	1(0,9%)	0
What attention does the university administration pay to the content of the educational program?	46(41,4%)	59(53,2%)	6(5,4%)	0	0
How do you assess the sufficiency and availability of the necessary scientific and educational literature in the library?	59(53,2%)	41(36,9%)	9 (8,1%)	2(1,8%)	0
Assess the level of conditions created that take into account the	27(24,3%)	77 (69,4%)	7(6,3%)	0	0

needs of different groups of students?					
Assess the openness and accessibility of management for students	37(33,3%)	67(60,4%)	6(5,4%)	1(0,9%)	0
Assess the openness and accessibility of management for teaching staff	31(27,9%)	71(64%)	6(5,4%)	3(2,7%)	0
Assess the opportunities for professional and personal growth created for each teacher and staff member.	39(35,1%)	63(56,8%)	8(7,2%)	1(0,9%)	0
Assess the adequacy of the recognition by the management of the university of the potential and abilities of teachers	27(24,3%)	71(64%)	11(9,9%)	2(1,8%)	
How is academic mobility organized?	27(24,3%)	65(58,6%)	19(17,1%)	0	0
How is the professional development of teaching staff organized?	38(34,2%)	64(57,7%)	8(7,2%)	1(0,9%)	0
Assess how the university and its management support the research work of the teaching staff?	36(32,4%)	55(49,5%)	19(17,1%)	1(0,9%)	0
Assess how the university and its management support the development of new educational programs / academic disciplines / teaching methods?	44(39,6%)	63(56,8%)	4(3,6%)	0	0
Assess the faculty's ability to combine teaching with research	31(27,9%)	63(56,8%)	15(13,5%)	1(0,9%)	1(0,9%)
Assess the ability of the teaching staff to combine teaching with practical activities	49(44,1 %)	56(50,5%)	4(3,6%)	2(1,8%)	0
Assess whether the knowledge acquired by students at the university meets the requirements of the modern labor market	35(31,5%)	68(61,3%)	6(5,4%)	1(0,9%)	1(0,9%)
How do the management and administration of the university perceive criticism?	18(16,2%)	74(66,7%)	12(10,8%)	6(5,4%)	0
Assess how your workload matches your expectations and abilities	17(15,3%)	71(64%)	18(16,2%)	4(3,6%)	1(0,9%)

Assess the focus of educational programs / curricula on providing students with situational analysis and forecasting skills	30(27%)	74(66,7%)	5(4,5%)	2(1,8%)	0
Assess how the content and quality of the implementation of the educational program meet the expectations of the labor market and the employer	32(28,8%)	69(62,2%)	8(7,2%)	1(0,9%)	1(0,9%)

31. Why do you work in this particular HEI? (Why do you work at this university?)

I enjoy working with students

Like

There is an opportunity to engage in scientific activities, practice.

Constantly engaged in literature and self-education

According to your specialty

suits everything

High status in the future, due to the opportunity to realize one's professionalism and growth

Because I have a medical background.

Since I live in this city

This is my home university!

I live in this city

There is a possibility of development

Realizing my potential

I like working at this university, work with students, good team

Comfortable, healthy atmosphere, high professionalism of colleagues, demand for the university, motivated students.

I live in this city and have been a teacher for many years

By scientific status

Because I see professional growth

Capital, advanced university, friendliness, sociability in relation to teaching staff, openness to innovation!

Best university

The university meets my expectations and opportunities

I like to do medical and scientific work together with my studies.

Convenient schedule and location of the university

Is promising

providing opportunities for career growth

Good university

I like working with students, sharing experiences.

The opportunity to work with interesting people who are professionals in their field and share practical experience with the younger generation.

I am a graduate of this university

Matches my direction

Excellent faculty,

I like to educate future doctors and university staff

The opportunity to improve their professional pedagogical level and combine with practical activities.

Prestigious

I would like to work in this university. There are all opportunities for professional development.

Permanent residence, home university

Like Vuz

Good team and potential of the capital's university

Capital university, prestige

Because I work



Like teaching activities

Combination of teaching and clinic, integration of science

I like teaching, the best university and great prospects

The university provides many opportunities for career growth and advanced training in scientific areas

The best university in Kazakhstan

I like my team. The university provides an opportunity to improve their skills, combine teaching with practical activities

I like working at our university

I have been working for more than 20 years, very good people work at my university

All the conditions for the development of medicine in our country, I want to share daily knowledge from clinical practice.

Promising and prestigious university

I enjoy working with students and improving my knowledge

Career

Good working conditions, satisfactory salary

I like the attitude of management towards employees

Capital level! Perspective plans

Progressive university

The Institute of Radiobiology and Radiation Protection is relatively young - 18 years from the date of its creation.

The Institute needs my organizational help, as a former head (before retirement) of the Department of Organization of Medical Care of the Ministry of Health of the Republic of Kazakhstan, who has some experience in the field of science and medical practice. Here I work as a Chief Researcher, I participate in planning the work of the Institute, in organizing and conducting a mandatory preventive medical examination of workers at radiation-hazardous enterprises (uranium and oil and gas production), collecting and analyzing the obtained medical data and, based on them, developing proposals to reduce the risk morbidity, organization of in-depth examination, treatment and medical rehabilitation, etc.

I like a lot about this university.

Firstly, communication with students, secondly, I like the discipline I teach and I feel that in the near future I will be able to realize myself even more as a teacher. I think our university can help us with this.

have the opportunity to engage in scientific activities in their scientific direction

I like my university, I am a teacher and I love students and I love studying myself

I graduated from this university and continued my residency and postgraduate studies, now I work here

To implement my knowledge and skills for 40 years of work in medicine

Satisfy working conditions

Medical education

Because this is the only medical university in the city of Nur-Sultan, and most importantly, it meets all my expectations.

Willingness to share knowledge. obtained in practice with a new generation of doctors The university contributes to the acquisition of new knowledge as a teacher. as a practitioner and as a researcher

This is my alma mater, despite many shortcomings, I love my university

I like teaching

Because I love teaching

Interesting, near my house

Sufficiently high positions in the ranking of universities of the republic, the capital's university, a friendly atmosphere in the university staff

suits as career growth

Prestige

I fully realize myself as a professor, university lecturer, innovator

There are prospects. I like sharing my experience with young people.

I studied at this university, it is prestigious, I live nearby

I was distributed to this university after graduation for many years there were and are comfortable working conditions and a sociable team at the department.

Development in scientific terms

I love my profession

Arrange working conditions

I want to share my experience with the younger generation

I love my profession very much, I started my pedagogical activity from studying at a medical school, practical health care, an institute, practical health care, I combined scientific activity with practice. I want to convey my rich professional, scientific experience to future doctors in the capital's university.

My ALMA MATER

By profile.

I enjoy working with youth and teaching staff

Satisfy conditions

This is a university that I graduated from as a student, then I go through postgraduate education (clinical residency, master's, doctoral studies), the level of education suits me. I work at the department where I was and am still studying, the teaching staff of the department meets all modern requirements, the work at the department is interesting.

Because this is the medical university of our city

	Often very	often	Sometimes	Very rarely	Never
How often do you conduct master classes and practical exercises as part of your course?	20(18%)	50(45%)	34(30,6%)	7(6,3%)	0
How often are teachers invited from outside (local and foreign) to participate in the teaching process?)	6(5,4%)	30(27%)	54(48,6%)	20(18%)	1(0,9%)

How often do you encounter the following problems in your work?

	Often	Sometimes	Never
Lack of classrooms	12 (11,2%)	43(40,2%)	52 (48,6%)
Unbalanced study load by semesters	9 (8,1%)	47(42,3%)	55(49,5%)
Lack of necessary literature in the library	5(4,5%)	49(44,1%)	57(51,4%)
Overcrowding of study groups (too many students in the group)	18(16,2%)	45(40,5%)	48(43,2%)
Inconvenient schedule	4(3,6%)	38(34,2 %)	69 (62,2%)
Inappropriate classroom environment	10(9,1%)	38(34,5%)	62(56,4%)
No internet access / poor internet connection	23(20,7%)	55(49,5%)	33(29,7%)
Students' lack of interest in learning	7(6,3%)	57(51,4%)	47(42,3%)
Untimely receipt of information about events	6 (5,4%)	46(41,4%)	59 (53,2%)
Lack of teaching aids in the classrooms	8(7,2%)	26(23,4%)	77(69,4%)

34.11 Other problems (Other problems (if any). Please specify)

No problem

Too much workload in the educational process, a lot of classes, when is science to be dealt with?

It is necessary to restore the internship in surgery - it is needed by surgeons and ENTs and eye specialists, and so on.  
 And according to the GP, this is just a loss of 2 years  
 Lack of own university clinic  
 Old study rooms  
 Insufficiency of the main educational literature in the state language  
 Lack of own clinical base of the university  
 There are almost no problems  
 Lack of a university clinic  
 Requires a water cooler  
 Unwillingness to learn from students and no opportunity to interest them  
 I would like to develop academic mobility and attract foreign professors  
 salary does not correspond to the amount of work that the teacher does  
 Part-time workers' salary is too low. And the inability to go on paid vacation, paid sick leave, etc. Dismissal from June 30th. This is bad. Although I am a doctoral student at my own department, I quit every summer (while doing all my work with high quality and in a tray volume)  
 Insufficient salary  
 Sticking to the strategic plan  
 I don't know yet  
 Access to the clinical base  
 It all depends on the efficiency and interest of the teaching staff  
 There are no particularly serious problems, if such situations arise, they are completely solvable.  
 The problem of recruitment for the staff of teaching staff due to the lower salaries of teachers compared to dentists of practical health care  
 The absence of a clinic at the university  
 Absence of an ostomy clinic  
 Lack of a unified clinical base  
 Untimely repair of educational buildings and purchase of medical equipment  
 Layering groups  
 35. There are many different sides and aspects in the life of the university, which in one way or another affect every teacher and employee. Rate how satisfied you are:

	Completely satisfied	Partially satisfied	Not satisfied	Difficult to answer
Relationships with direct management	88(79,3%)	20(18%)	1(0,9%)	2(1,8%)
Relationships with colleagues in the department	101(91%)	9(8,1%)	1(0,9%)	0
The degree of participation in managerial decision-making	65(58,6%)	37(33,3%)	4(3,6%)	5(4,5%)
Relations with students	101(91%)	10(9%)	0	0
Recognition of your successes and achievements by the administration	63(56,8%)	36(32,4%)	7(6,3%)	5(4,5%)
Support for your suggestions and comments	72(64,9%)	35(31,5%)	1(0,9%)	3(2,7%)
University administration activities	66(59,5%)	37(33,3%)	5(4,5%)	3(2,7%)
Terms of pay	39(35,1%)	56(50,5%)	15(13,5%)	1(0,9%)

Convenience of work, services available at the university	67(60,4%)	34(30,6%)	9(8,1%)	1(0,9%)
Occupational health and safety	79(71,2%)	26(23,4%)	3(2,7%)	3(2,7%)
Management of changes in the activities of the university	56(50,5%)	47(42,3%)	4(3,6%)	4(3,6%)
Provision of benefits: rest, sanatorium treatment, etc.	51(45,9%)	43(38,7%)	12(10,8%)	5 (4,5%)
Organization of catering at the university and its quality	39(35,1%)	42(37,8%)	16(14,4%)	14 (12,6%)
Organization of health care and quality of medical services	56(50,5%)	39(35,1%)	5(4,5%)	11(9,9)

#### Annex 4. RESULTS OF STUDENT QUESTIONNAIRE

Total number of profiles: 347

##### 1. Your department/faculty?

Oncology and hematology for children	2(0,6%)
medical genetics	1(0,3%)
Plastic surgery for adults, children	5(1,4%)
Biology	2(0,6%)
General medicine	188 (54,2%)
Dentistry	81 (23,3%)
general surgery	10(2,9%)
Pulmonology for adults, children	47(13,5%)
nursing	4(1,2%)
Others (GP, 4 year MD, internship, General practice)	7(2%)

##### 2. Your gender

Male	74 (21,3%)
Female	273(78,7%)

##### 3. Rate how satisfied you are:

###### 3.2 The level of accessibility of the dean's office

Excellent	200(57,6%)
Good	102 (29,4%)
Partially Satisfied	37 (10,7%)
dissatisfied	8 (2,3%)

###### 3.3 The level of accessibility and responsiveness of the university management

Excellent	146(42,1%)
Good	119(34,3%)
Partially Satisfied	67 (19,3%)
Not satisfied	14(4%)

###### 3.4 Availability of academic counseling



Excellent	149 (42,9%)
Good	125 (36%)
Partially Satisfied	62 (17,9%)
dissatisfied	10 (2,%)
Very dissatisfied	1 (0,3%)

## 3.5. Support with educational materials in the learning process

Excellent	140(40,3%)
Good	117 (33,7 %)
Partially Satisfied	62 (17,9%)
dissatisfied	22 (6,3%)
Very dissatisfied	6(1,7%)

## 3.6. Availability of personal counseling

Excellent	137 (39,5 %)
Good	101 (29,1%)
Partially Satisfied	79(22,8 %)
dissatisfied	23 (6,6%)
Very dissatisfied	7(2%)

## 3.7. Relationship between student and teaching staff

Excellent	140(40,5 %)
Good	134 (38,7%)
Partially Satisfied	58 (16,8 %)
dissatisfied	11 (3,2%)
Very dissatisfied	3(0,9%)

## 3.8. The activities of the financial and administrative services of the university

Excellent	105(30,3 %)
Good	139 (40,1%)
Partially Satisfied	81 (23,3 %)
dissatisfied	14 (4%)
Very dissatisfied	8(2,3%)

## 3.9. Availability of medical health service

Excellent	112 (32,3 %)
Good	131 (37,8%)
Partially Satisfied	72 (20,7 %)
dissatisfied	25 (7,2%)
Very dissatisfied	7(2%)

## 3.10. The quality of medical services at the university

Excellent	119(34,3 %)
Good	106 (30,5%)
Partially Satisfied	72 (20,7 %)
dissatisfied	38 (11%)
Very dissatisfied	12(3,5%)

## 3.11. The level of availability of library resources

Excellent	160 (46,1 %)
Good	109 (31,4%)
Partially Satisfied	55 (15,9 %)
dissatisfied	20 (5,8%)
Very dissatisfied	3(0,9%)

## 3.12. The quality of services in libraries and reading rooms

Excellent	152(43,8 %)
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Good	110 (31,7%)
Partially Satisfied	66(19 %)
dissatisfied	16 (4,6%)
Very dissatisfied	3(0,9%)

## 3.13. Satisfaction with the existing educational resources of the university

Excellent	134 (38,6 %)
Good	115 (33,1%)
Partially Satisfied	69 (19,9 %)
dissatisfied	24 (6,9%)
Very dissatisfied	5(1,4%)

## 3.14. Availability of computer classes and Internet resources

Excellent	126(36,3 %)
Good	115 (33,1%)
Partially Satisfied	67(19,3 %)
dissatisfied	27 (7,8%)
Very dissatisfied	12(3,5%)

## 3.15. Availability and quality of Internet resources

Excellent	126 (36,3 %)
Good	110 (31,7%)
Partially Satisfied	70(20,2 %)
dissatisfied	29 (8,4%)
Very dissatisfied	12(3,5%)

## 3.16. The usefulness of the website of educational organizations in general and faculties in particular

Excellent	139 (40,1 %)
Good	117 (33,7%)
Partially Satisfied	68 (19,6 %)
dissatisfied	20 (5,8%)
Very dissatisfied	3(0,9%)

## 3.17. Study rooms, auditoriums for large groups

Excellent	119 (34,3 %)
Good	111 (32%)
Partially Satisfied	74 (21,3 %)
dissatisfied	28 (8,1%)
Very dissatisfied	15(4,3%)

## 3.18. Are there student lounges (subject to availability)

Excellent	74 (21,3 %)
Good	67 (19,3%)
Partially Satisfied	82 (23,6 %)
dissatisfied	68 (19,6%)
Very dissatisfied	56(16,1%)

## 3.19. Clarity of procedure for taking disciplinary action

Excellent	115(33,1 %)
Good	135 (38,9%)
Partially Satisfied	76(21,9 %)
dissatisfied	14 (4%)
Very dissatisfied	7(2%)

## 3.20. The overall quality of study programs

Excellent	116(33,4 %)
Good	129 (37,2%)
Partially Satisfied	70(20,2 %)

dissatisfied	30 (8,6%)
Very dissatisfied	2(0,6%)

## 3.21. The quality of study programs at the university

Excellent	122(35,2 %)
Good	124 (35,7%)
Partially Satisfied	72(20,7 %)
dissatisfied	24 (6,9%)
Very dissatisfied	5(1,4%)

## 3.22. Teaching methods in general

Excellent	124 (35,7 %)
Good	112 (32,3%)
Partially Satisfied	73 (21 %)
dissatisfied	31(8,9%)
Very dissatisfied	7(2%)

## 3.23. Quick response to feedback from teachers regarding the educational process

Excellent	150 (43,2 %)
Good	120 (34,6%)
Partially Satisfied	54 (15,6 %)
dissatisfied	18(5,2%)
Very dissatisfied	5(1,4%)

## 3.24. The quality of teaching

Excellent	136 (39,2%)
Good	126 (36,3%)
Partially Satisfied	66 (19 %)
dissatisfied	15 (4,3%)
Very dissatisfied	4 (1,2%)

## 3.25. Academic load / requirements for students

Excellent	114 (32,9%)
Good	133 (38,3%)
Partially Satisfied	73 (21 %)
dissatisfied	22 (6,3%)
Very dissatisfied	5 (1,4%)

## 3.26. Requirements of teaching staff for students

Excellent	126(36,3%)
Good	139 (40,1%)
Partially Satisfied	64(18,4 %)
dissatisfied	15(4,3%)
Very dissatisfied	3 (0,9%)

## 3.27. Information support and clarification of the requirements for applicants to the university and the strategy of the educational program (specialty) before entering the university

Excellent	135 (38,9%)
Good	130 (37,5%)
Partially Satisfied	69 (19,9 %)
dissatisfied	10 (2,9%)
Very dissatisfied	3 (0,9%)

## 3.28. Informing the requirements that must be met for the successful completion of this educational program (specialty)

Excellent	145 (41,8%)
Good	133 (38,3%)
Partially Satisfied	58(16,7 %)
dissatisfied	10 (2,9%)

Very dissatisfied	1 (0,3%)
3.31. Conducted tests and exams	
Excellent	131 (37,8%)
Good	132 (38%)
Partially Satisfied	65 (18,7 %)
dissatisfied	16 (4,6%)
Very dissatisfied	3 (0,9%)

## 3.32. Objectivity in assessing knowledge, skills and other academic achievements

Excellent	132 (38%)
Good	133 (38,3%)
Partially Satisfied	61(17,6 %)
dissatisfied	17(4,9%)
Very dissatisfied	4 (1,2%)

## 3.33. Available computer classes

Excellent	118 (34%)
Good	117 (33,7%)
Partially Satisfied	75 (21,6 %)
dissatisfied	25 (7,2%)
Very dissatisfied	12 (3,5%)

## 3.34. Available scientific laboratories

Excellent	106(30,5%)
Good	96 (27,7%)
Partially Satisfied	83(23,9 %)
dissatisfied	48(13,8%)
Very dissatisfied	14 (4%)

## 3.35. Objectivity and fairness of the teacher

Excellent	138 (39,8%)
Good	122 (35,2%)
Partially Satisfied	64 (18,4 %)
dissatisfied	18 (5,2%)
Very dissatisfied	5 (1,4%)

## 3.36. Informing students about courses, educational programs, and academic degrees

Excellent	146 (42,1%)
Good	125 (36%)
Partially Satisfied	59(17 %)
dissatisfied	12(3,5%)
Very dissatisfied	5 (1,4%)

## 3.37. Providing students with a hostel

Excellent	105(30,3%)
Good	116 (33,4%)
Partially Satisfied	83(23,9 %)
dissatisfied	28 (8,1%)
Very dissatisfied	15 (4,3%)

## 4. Rate how much you agree:

## 4.1 The course program was clearly presented

I completely agree	124 (35,7%)
I agree	140 (40,3%)
Partially agree	68 (19,6 %)
Disagree	8 (2,3%)
Complete disagreement	2 (0,6%)

Difficult to answer	5 (1,4%)
4.2 Course content is well structured	
I completely agree	119(34,3%)
I agree	137 (39,5%)
Partially agree	69(19,9 %)
Disagree	15(4,3%)
Complete disagreement	4 (1,2%)
Difficult to answer	3 (0,9%)
4.3 Key terms adequately explained	
I completely agree	133(38,3%)
I agree	137 (39,5%)
Partially agree	62(17,9 %)
Disagree	11(3,2%)
Difficult to answer	4 (1,2%)
4.4 The material proposed by the teaching staff is relevant and reflects the latest scientific and practical developments	
I completely agree	118 (34%)
I agree	134 (38,6%)
Partially agree	75 (21,6 %)
Disagree	14(4 %)
Complete disagreement	4 (1,2%)
Difficult to answer	2 (0,6%)
4.5 The teacher uses effective teaching methods	
I completely agree	116 (33,4%)
I agree	138 (39,8%)
Partially agree	62 (17,9 %)
Disagree	23 (6,6 %)
Complete disagreement	8 (2,3%)
4.6 The teacher owns the material being taught	
I completely agree	138 (39,8%)
I agree	150 (43,2%)
Partially agree	52 (15 %)
Disagree	6 (1,7 %)
Complete disagreement	1 (0,3%)
4.7 Teacher presentation is clear	
I completely agree	138 (39,8%)
I agree	140 (40,3%)
Partially agree	60(17,3 %)
Disagree	6(1,7%)
Complete disagreement	2 (0,6%)
Difficult to answer	1 (0,3%)
4.8 The teacher presents the material in an interesting way	
I completely agree	120 (34,6%)
I agree	127 (36,6%)
Partially agree	75(21,6 %)
Disagree	18(5,2%)
Complete disagreement	6 (1,7%)
Difficult to answer	1 (0,3%)
4.9 Knowledge, skills and other academic achievements are assessed objectively	
I completely agree	116(33,4%)



I agree	152 (43,8%)
Partially agree	68(19,6 %)
Disagree	5(1,4%)
Complete disagreement	5 (1,4 %)
Difficult to answer	1 (0,3%)

## 4.10 The teacher meets your requirements and expectations in terms of professional and personal development

I completely agree	131 (37,8%)
I agree	139 (40,1%)
Partially agree	60 (17,3 %)
Disagree	11 (3,2 %)
Complete disagreement	4 (1,2 %)
Difficult to answer	2 (0,6%)

## 4.11 The teacher stimulates the activity of students

I completely agree	124 (35,7%)
I agree	129 (37,2%)
Partially agree	71 (20,5%)
Disagree	11 (3,2 %)
Complete disagreement	9 (2,6 %)
Difficult to answer	3 (0,9%)

## 4.12 The teacher stimulates students' creative thinking

I completely agree	121 (34,9%)
I agree	122 (35,2%)
Partially agree	74(21,3%)
Disagree	19(5,5%)
Complete disagreement	9 (2,6 %)
Difficult to answer	2 (0,6%)

## 4.13 Appearance and mannerisms of the teacher are appropriate

I completely agree	149 (42,9%)
I agree	146 (42,1%)
Partially agree	44 (12,7%)
Disagree	7 (2 %)
Complete disagreement	1(0,3%)

## 4.14 The teacher demonstrates a positive attitude towards students

I completely agree	132(38%)
I agree	141 (40,6%)
Partially agree	66(19 %)
Disagree	6(1,7%)
Complete disagreement	1 (0,3 %)
Difficult to answer	1 (0,3 %)

## 4.15 The system for assessing academic achievements (seminars, tests, questionnaires, etc.) Reflects the content of the course

I completely agree	135 (38,9%)
I agree	137 (39,5%)
Partially agree	63 (18,2 %)
Disagree	7 (2 %)
Complete disagreement	3 (0,9 %)
Difficult to answer	2 (0,6 %)

## 4.16 The evaluation criteria used by the teaching staff are clear and accessible

I completely agree	124 (35,7%)
I agree	154 (44,4%)
Partially agree	51 (14,7 %)

Disagree	12 (3,5 %)
Complete disagreement	6 (1,7 %)

4.17 The teaching staff objectively evaluates the achievements of students

I completely agree	124(35,7%)
I agree	145(41,8%)
Partially agree	62(17,9%)
Disagree	11(3,2 %)
Complete disagreement	5(1,4%)

4.18 The teacher speaks professional language

I completely agree	144 (41,5%)
I agree	145 (41,8%)
Partially agree	51 (14,7 %)
Disagree	6(1,7%)
Complete disagreement	1(0,3%)

4.19 The organization of education provides sufficient opportunities for sports and other leisure activities

I completely agree	112 (32,3%)
I agree	115 (33,1%)
Partially agree	69 (19,9 %)
Disagree	30 (8,6 %)
Complete disagreement	18 (5,2 %)
Difficult to answer	3 (0,9 %)

4.20 Facilities and equipment for students are safe, comfortable and modern

I completely agree	114 (32,9%)
I agree	132 (38%)
Partially agree	60 (17,3%)
Disagree	24 (6,9%)
Complete disagreement	15 (4,3 %)
Difficult to answer	2 (0,6 %)

4.21 The library is well equipped and has a fairly good collection of books

I completely agree	123 (35,4%)
I agree	122 (35,2%)
Partially agree	75 (21,6%)
Disagree	16 (4,6%)
Complete disagreement	7 (2 %)
Difficult to answer	4 (1,2 %)

4.22 Equal opportunities are provided to all students

I completely agree	126(36,3%)
I agree	144(41,5%)
Partially agree	58(16,7%)
Disagree	12(3,5%)
Complete disagreement	5(1,4%)
Difficult to answer	2 (0,6 %)

Other concerns regarding the quality of teaching:

Everything is great

No problem

Everything is fine

I like the quality of teaching

They don't give grades they got on the exam. I received 90 twice but put 88 in platonus. Not fair.

I have no complaints at my Medical University, I am satisfied and satisfied and also grateful to all the teaching staff. I would like to emphasize my deputy deans of the faculty of general medicine Igenbayeva Bakhyt Balkenovna and Kamanova Saule Rakhmanovna for their work, support and love for their students!

At our university, after the transition to the "credit" system, most of the teachers stopped participating in the educational process. When we come to class, we are often faced with the absolute indifference of the teacher: now the teacher does not explain the topic, does not ask questions to us, and often does not answer our questions. Due to the transition to distance learning / combined learning, we do not even touch on some topics, teachers often want to finish the lesson as quickly as possible. The topics of SROP and SRO while remaining on distance learning, as a rule, are not understood. Although it is difficult to disassemble these topics on your own.

The most interesting thing is that at our university there is no middle level of teaching: either they are incredibly good teachers, whose subjects we remember for a long time, or they are meager, uninterested teachers who cannot even answer a simple question. Moreover, this absolutely does not depend on their age and experience.

Lack of practical skills

To analyze the work of students in different groups, often with the same level of knowledge and quality of work, a large range of points. Some teachers rate the work at 90 points, others at 70 points, although the level of quality of the work is the same.

Better and better communication with management, often information has to be obtained from other groups, through word of mouth.

Do not put two groups at the same time with one teacher, especially at clinical sites where there are no conditions for a large number of people. Cramming in a small dusty office in the basement, with a large number of people for several hours, is very difficult. In addition, the survey and milestone controls often take the teacher too long.

More questions for the sports sector and the social sector. The sports part of the university is poorly supported: lack of a normal gym, lack of support for the university teams in various sports (a new uniform, constant training are required, and since this is a university team, financial support should be from the university, as in other universities) The social sector is weak - nothing more concerts are held, and then only on holidays. KVN games, poetry evenings, meetings based on the TedX and ReadX principles that would develop students comprehensively and help them reduce stress from hard study, help them have fun and divert attention from study problems

There are no problems regarding the quality of teaching. There are problems: there are too many children's cycles, not everyone will be children's pulmonologists. You can not work in the specialty in the 2nd year of study

They do not provide sufficient material, you have to look for yourself and explain yourself.  
The teaching staff is the best of the best!

In general, not bad, but there are some moments when teachers do not meet students

An unstructured approach to teaching, there is no quality teaching in basic disciplines in the junior years, a lot of unnecessary disciplines and a small number of hours devoted to core disciplines in the junior years.

Teachers sometimes do not give an accurate assessment, this was the case for the orthodontics module in the 4th year. The grades that we received for the oral answer were not given to us in platonus. And downgraded by 10 points.

Not so much about the teachers, but about the conditions of the university: the lack of sanitary facilities in the departments, normal locker rooms for students, the difficulty of taking books from libraries  
Lacks empathy

A teacher may treat a student unfairly for personal reasons.

During the educational process, no sanitary and hygienic standards are observed in classrooms and institutions. In some classrooms (Moldagulova st. 26, military hospital near Beibitshilik 49A) there are no desks, chairs, windows,

heating, institutions without a normal sanitary unit, classes are held in abandoned buildings, there are no normal changing rooms. Repairs at the main facilities along 33 Saryarka Street and 49 Beibitshilik Street have not been done for a long time either.

Under such conditions, it is impossible to study normally.

Some teachers give marks not objectively: people who sleep in pairs are overestimated, and those who actively participate, on the contrary, are underestimated. Exams are not organized (especially oral) students are delayed in time.

The boorish attitude of some teachers to students of dentists. Why are they so disrespectful to students? Yes, they are older than us and smarter, but this does not mean that you can communicate with us like that. Where is your ethics and deontology, which is often mentioned in the learning process, but they do not follow it themselves? Also, most demand a lot, but the topics themselves do not explain. We must read / study, take notes, etc. ourselves. - I understand that, but why do we need teachers if they do not explain the topics to us? Then let them remove all teachers and leave only examiners and lecturers, we will study ourselves and come only to exams ☹️. After all, many teachers do not explain anything, but brush it off saying "you should have read it yourself at home." Then why do we need teachers? What are they getting paid for? It is also annoying that they are forced to write notes endlessly by hand in a notebook. Why can't you type on a laptop? For example, I remember information more when I read and immediately practice in practice, and I only write notes for show and for teachers, so that I can throw it away after the end of the cycle ☹️. I spend my time writing these summaries until I could read the topic three times.

And why retake and recycle for a fee? I agree that the student is partly to blame for not having mastered any cycle and failed the exam, but the teachers are also to blame, again, for not being able to properly explain their discipline to the student. Make it so that retakes and recycles are free or reduce the price for them, because as far as I know the money goes directly to the teachers and some may use this and deliberately bring down many on exams to cash in on it. I'm not arguing about the latter; rather, these are my assumptions.

Thank you for reading, I hope the right action will be taken.

It is difficult to understand the criteria for evaluating teachers, it is often noticeable that teachers are biased and unfair towards students. There are few teachers who know modern methods of treatment, from personal experience I learn more new things at work with doctors than at school.

There are not enough teaching materials (books), there are not enough teaching equipment for developing practical skills, not all teachers can explain the teaching material 100%, the classroom equipment is not entirely satisfactory,

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Dismiss Daniyar Erlanovich for irresponsibility towards his work!

Some teachers do not know what subordination and ethics are. If you retell the textbooks, they say that this is wrong. The curriculum is low, all topics are combined, because of this, students have a mess in their heads. We pay a million a year, and we don't even have trays at the university, only money is important to you, not the quality of education,

because we are your future competitors. There are no normal textbooks in the Kazakh language, although, for example, KazMNU has them. I ask you to consider all these complaints!

no problem in teaching  
language barrier, in the kaz group all information is in Russian. , not fair evaluation during ex.

Only question-answer

The instructors are excellent and always try to convey information.

- Lack of hours (practice, SROP).
  - For 7 years of study, there were no classes in forensic medical examination and topographic anatomy, clinical immunology, etc. Our course has always been at the origin of the reform of the educational process (I think, because of this, some disciplines were not taught).
  - Classes in parasitology in the 1st year are held at the Department of Molecular Biology and Medical Genetics (and not doctors teach, but biologists)
  - In the 2nd year, safety classes are held (why?) (I heard that this module takes a whole month, while normal anatomy, biochemistry and microbiology are allotted only 10 days each).
- everything suits me

