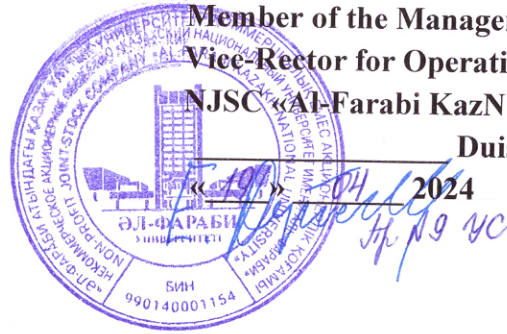


APPROVED»

Member of the Management Board,  
Vice-Rector for Operations

NJSC «Al-Farabi KazNU»

Duisenov E.E



**The program of  
the entrance exam for the group of educational programs of the Faculty of  
Medicine and Healthcare  
THE HIGHER SCHOOL OF MEDICINE  
Master's degree  
for foreign citizens to study on a paid basis**

**1. General provisions**

1.1 The program was drawn up in accordance with the Order of the Minister of Education and Science of the Republic of Kazakhstan dated October 31, 2018, No. 600 «On approval of the Model Regulations for admission to studies in educational organization, implementing educational programs of technical and vocational education» (hereinafter – the Standard Rules).

1.2. Kazakh National University named after al-Farabi accepts individuals who have completed higher education programs for postgraduate education programs (master's degree).

1.3. Entrance exams are conducted in the form of interviews for the following educational programs:

- ✓ 7M10117 - Pharmacy
- ✓ 7M10112 - Biomedicine (1 year)
- ✓ 7M10104 – Medicine (doctor-researcher)

1.4. For the organization and conduct of entrance exams for the admission of foreign applicants, an examination subject commission for the academic year is established by the rector of al-Farabi Kazakh National University.

The examination commission for the admission exams of foreign applicants to KazNU includes employees of the Office of Internationalization and Recruitment (hereinafter referred to as the Office) and the teaching staff of KazNU.

1.5. If a foreign applicant who meets the above-mentioned requirements is unable to come to the University for the entrance interview, they have the option to take it in an online format.

1.6. Entrance exams in the form of oral interviews for the admission of foreign applicants are evaluated on a 100-point scale. For admission to the master's program on a fee-paying basis, a minimum of 75 points is required for the academic and pedagogical track (2 years) and a minimum of 50 points for the specialized track (1-1.5 years).

1.7. Following the entrance interview, a protocol is prepared in the established format. The interview protocol is signed electronically via the "Salem office" system by the chairperson and all

attending members of the commission and then submitted to the Office.

1.8. The decision on admission is reviewed by the competition commission for the enrollment of foreign applicants and documented by a protocol through the "Salem office" system. The results of the entrance exam are announced on the day of the exam.

1.9. Retaking the entrance exam is not allowed.

1.10. Appeals regarding the results of the interview are allowed within 24 hours.

## **2. Conducting the entrance exam in 2024:**

2.1 The interview is conducted in Russian, Kazakh, and English languages. The oral interview also includes questions aimed at assessing the applicant's ability to learn, creative activity, critical thinking, and personal qualities.

2.2. An indicative list of interview topics:

1. Regulatory and legal regulation of pharmaceutical activities.
2. Legal basis for entrepreneurship in the pharmacy business.
3. Licensing in the field of medicines circulation.
4. Organization of the work of the commodity distribution network of the pharmaceutical market.
5. Pharmaceutical logistics.
6. Organization of the operating activities of wholesale pharmaceutical organizations
7. Information and communications in the management of pharmaceutical companies.
8. Pharmacy management and marketing
9. State system of drug quality control.
10. Pharmaceutical market. Good pharmacy practice. Good Distribution Practices.
11. Drug development cycles.
12. Scientific management and its organizational structure.
13. Pharmaceutical science as a science. Pharmacology. Pharmacognosy. Item. Goals. Tasks. Basic terms.
14. Pharmaceutical chemistry.
15. Technology for manufacturing dosage forms.
16. Organizing the activities of the pharmacy. Standardization of pharmaceutical activities.
17. Pharmaceutical guardianship.
18. Biopharmacy
19. Scientific research, structure. Basic and applied research.
20. Methods of scientific knowledge and its requirements.

2.3. Recommended reading list for preparation:

1. Pharmaceutical development: concept and practical recommendations: scientific and practical hands. for the pharmaceutical industry / edited by S.N. Bykovsky, I.A. Vasilenko, N.B. Demina [et al.] - M.: Pero 2015. - 471 p.-112 copies.

2. Management and economics of pharmacy: textbook / edited by I.A. Narkevich. - M.: GEOTAR-Media, 2017. - 928s.: ill. - 5 copies.

3. Legal foundations of pharmaceutical activity / V.A. Vnukova, I.V. Spichak. - M.: GEOTAR - Media, 2018. - 416 p.-31 copies.

4. Bagirova V.L. Management and economics of pharmacy. – M.: Koloss, 2004. -504 p.

5. Novikov A.M., Novikov D.A. Methodology of scientific research. – M.: Librocom,

2010. – 280 p.

6. Krampit A.G., Krampit N.Yu. Methodology of scientific research. Tomsk: Publishing House of the Polytechnic University. unita, 2008. – 164 p.

7. World Health Organization (WHO). Joint FIP / WHO guidelines on good pharmacy practice: standards for quality of pharmacy services. WHO Technical Report Series, No. 961, 2011. Geneva: World Health Organization; 2011.

8. (English; Portuguese); Abstract available. By: Oliveira LT; Silva CP; Guedes MD; Sousa AC; Sarno F, Einstein (Sao Paulo, Brazil) [Einstein (Sao Paulo)], ISSN: 2317-6385, 2016 Jul-Sep; Vol. 14 (3), pp. 415-419; Publisher: Albert Einstein Institute for teaching and Research; PMID: 27759833,

9. Database: MEDLINE

10. <http://elibrary.kaznu.kz/ru>

11. web-site “GMP standards”

12. <https://ispe.org/initiatives/regulatory-resources/gmp/regulations>

13. <https://www.who.int/publications/who-guidelines>

14. <https://gmpua.com/Process/RegulationsAndQuality.pdf>

#### 2.4. An indicative list of interview topics:

11. Types of biomedical data.
2. Measuring the variability of the data.
3. Statistical hypotheses.
4. Unpaired Student's t test.
5. Nonparametric tests.
6. Descriptive research.
7. Analytical research
8. Experimental research
9. Secondary clinical trials.
10. Stages of evidence-based medicine.
11. Public health and health care as a science and subject of teaching.
12. Medical demography. The significance of demographic data for the characterization of public health.
13. Methods of studying morbidity from the data of attendance, medical examinations and causes of death.
14. Organization of medical care to the population (primary and hospital, inpatient).
15. Surveillance of infectious diseases.
16. Investigation of an outbreak.
17. Epidemiology and surveillance of noncommunicable diseases.
18. Types of biomedical data.
19. Purpose, tasks, means and methods of physical education.
20. The main characteristics of the technique of physical exercises
21. Tasks and content of physical education of preschool children
22. Characteristics of criteria-based assessment at the lesson of physical culture at school.

#### 2.5. Recommended reading list for preparation:

1. Petri, A. Visual medical statistics: textbook. - 2nd ed., Rev. And add. - M: GEOTAR - Media, 2010.

2. General epidemiology with the basics of evidence-based medicine: a guide to practical training: a tutorial / edited by V.I. Pokrovsky, N.I. Bricaud. - 2nd ed., Rev. and add. - M.: GEOTAR-Media, 2017. -- 496 p.

3. Methods of scientific research in medicine and health care / Elizabeth De Poi, Laura N.

Gitlin; per. from English Ed. V.V. Vlasov. - M.: GEOTAR-Media, 2017. -- 432 p.: Ill.

4. Basics of evidence-based medicine / T. Grinhalkh; per. From English. ed. I.N. Denisov, K.I. Saitkulova, V.P. Leonov. - 4th ed., Rev. And add. - M.: GOETAR-Media, 2018.

5. Doleldi medicine is negligible. Trisha Greenhalkh. aud.arylsh.til. / zhau. ed. G.S. Kemelova, T. K. Sagadatova, GOETAR-Media, 2018.

6. Raushanova A.M. Fundamentals of evidence-based medicine: study guide. - Almaty: «Kazakh University», 2019. 100 copies.

**3. Scale and criteria for evaluating the entrance exam for admission to the master's program (specialized track) for foreign citizens on a fee-paying basis:**

Number of points	Compliance criteria
<p><b>90-100 points</b> <b>«Excellent»</b></p>	<p>All competencies required for the entrance exam have been mastered. A comprehensive answer has been provided to two theoretical questions:</p> <ul style="list-style-type: none"> <li>- Scientific terminology has been correctly utilized.</li> <li>- All necessary features, elements, grounds, and classifications have been accurately named and defined to substantiate the arguments.</li> <li>- The main viewpoints accepted in scientific literature regarding the discussed issue have been indicated.</li> <li>- Own position or viewpoint has been argued, and the most significant research problems in this field have been identified.</li> <li>- The practical problem has been solved correctly with all necessary explanations.</li> </ul>
<p><b>75-89 points «Good»</b></p>	<p>All competencies required for the entrance exam have been mastered. A correct answer has been provided to two theoretical questions, with minor deficiencies identified in preparation:</p> <p>Scientific terminology is applied.</p> <ul style="list-style-type: none"> <li>- All necessary features, elements, classifications are named, but there is an error or inaccuracy in the definitions or concepts.</li> <li>- There are shortcomings in argumentation, factual or terminological inaccuracies are present, but they are not significant.</li> <li>- Some insights into possible research problems in the field are expressed.</li> <li>- The practical problem is partially solved with incomplete explanations provided.</li> </ul>
<p><b>50-74 points</b> <b>«Satisfactory»</b></p>	<p>All competencies required for the entrance exam have been mastered. A correct answer has been provided to two theoretical questions, with minor deficiencies identified in preparation:</p> <ul style="list-style-type: none"> <li>- Only some grounds, features, characteristics of the phenomenon under consideration are named and defined.</li> <li>- Significant terminological inaccuracies are present.</li> <li>- Own viewpoint is not presented.</li> <li>- No insights into possible research problems in the field are provided.</li> <li>- The practical problem is not solved.</li> </ul>

<b>0–49 points</b> «Unsatisfactory»	Not all competencies required for the entrance exam have been mastered. Incorrect answers are provided to two theoretical questions, with significant deficiencies identified in preparation. The practical problem is not solved.
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**3.1 Scale and assessment criteria of the entrance examination for admission to the master's program (academic and pedagogical direction) for foreign citizens on a fee-paying basis:**

Number of points	Compliance criteria
<b>90–100 points</b> "Excellent"	Demonstrates knowledge of the fundamental processes within the studied subject area; depth and completeness of addressing the issue; logically and sequentially expresses own opinion on the discussed problem; possesses conceptual-categorical framework, scientific terminology; logical coherence of the answer, adherence to the norms of contemporary scientific language.
<b>80–89 points</b> "Good"	Competent use of scientific terminology; mastery of conceptual-categorical framework; problem-oriented presentation of formulated questions; occasional errors in presenting factual material; incompleteness in presenting scientifically established facts within the scope of questions; logical coherence of the answer, adherence to the norms of contemporary scientific language.
<b>75–79 points</b> "Satisfactory"	Insufficient use of scientific terminology; inadequate mastery of conceptual-categorical framework; ability to address only one of the problems formulated in the questions; errors in presenting factual material; superficial knowledge of the subject area; violation of logical coherence in the answer, norms of contemporary scientific language.
<b>0–74 points</b> "Unsatisfactory"	Absence of necessary scientific terminology in the answers; descriptive presentation of discussed issues, inability to identify and present problems; gross errors in presenting factual material; lack of knowledge of historiography of the studied subject area.