

**MINISTRY OF EDUCATION AND SCIENCE
OF THE KYRGYZ REPUBLIC**

**MINISTRY OF HEALTH
OF THEREPUBLIC**

KYRGYZKYRGYZ STATE MEDICAL ACADEMY named after I.K. AKHUNBAEVA

"APPROVED"

Rector of KSMA, MD, professor

_____ **Kudaibergenova I.O.**

" ____ " _____ **2018**



BASIC EDUCATIONAL

PROGRAM

OF HIGHER PROFESSIONAL EDUCATION

Direction of training (specialty) - 560005 Pharmacy

Level of education - **higher (specialty)**

Qualification (degree) of a graduate - **Specialist (pharmacist)**

Form of study - **full-time**

Regulatory term for mastering the programprogram - **5 years**

Labor intensity of the- **300 credits (credits))**

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SECTION 1. GENERAL PROVISIONS

1.1. Definition of OOP HPO.

The main educational program of higher education (PLO HPE) in the direction of training (specialty) 560005 Pharmacy implemented at the Kyrgyz State Medical Academy named after I.K. Akhunbaeva (hereinafter KSMA) is a set of documents developed and approved by the university, taking into account the needs of the labor market on the basis of the State Educational Standard of Higher Education (SOS HPE) in the specialty Pharmacy.

PLO HPE regulates the goals, expected results, content, conditions and technologies for the implementation of the educational process, assessment of the quality of training a graduate in this specialty and includes: curriculum, work programs of training courses, subjects, disciplines (modules) and other materials that ensure the quality of training students, as well as programs of educational and industrial practice, a calendar training schedule, a program of research work for students and methodological materials that ensure the implementation of appropriate educational technologies.

A credit (credit) system is used to determine the structure of the OEP HPE and the complexity of its development. Credit is a unified unit of measurement of the workload of a student's workload, including all types of his educational activities provided for by the curriculum.

KSMA can apply the form of organizing educational activities based on the modular principle of presenting the content of the PLO HPE and building curricula, using appropriate educational technologies.

PLO HPE for training specialists in the specialty 560005 Pharmacy provides for educational and industrial practice of students.

The organization of the practice, provided by the educational program, is carried out by the KSMA on the basis of contracts with medical and pharmaceutical organizations.

1.2. Basic terms and definitions

The Basic educational program uses terms and definitions in accordance with the Law of the Kyrgyz Republic "On Education" and international documents in the field of higher professional education, adopted by the Kyrgyz Republic in accordance with the established procedure: the

- **basic educational program** is a set of educational and methodological documentation, regulatory goals, expected results, content and organization of the implementation of the educational process in this area of training (specialty) of higher professional education;
- **direction of training** - a set of educational programs for training personnel with higher professional education (specialists) of various profiles, integrated on the basis of a common fundamental training;
- **profile** - the focus of the main educational program on a specific type and (or) object of professional activity;
- **a cycle of disciplines** is a part of an educational program or a set of academic disciplines that has a certain logical completeness in relation to the established goals and results of training, education;

- **a module** is a part of an academic discipline that has a certain logical completeness in relation to the established goals and results of training, education;
- **competence** - a dynamic combination of personal qualities, knowledge, skills and abilities necessary to engage in professional activities in the specialty 560005 "Pharmacy";
- **creditcredit (unit)** - a conditional measure of the labor intensity of the main professional educational program;
- **learning outcomes** - competencies acquired as a result of training in the main educational program / module.
- **SES** - State educational standard;
- **HPE** - higher professional education;
- **PLO** is the main educational program;
- **UMO** - educational and methodological associations;
- **Central HouseholdCenter Education**- a cycle of disciplines of the main educational program;
- **OK** - general scientific competence;
- **IR** - instrumental competence;
- **LS**- medicines;
- **SLK** - social, personal and general cultural competences;
- **PC** - professional competencies;
- **CPV** - courses chosen by students;
- **MI** - medical devices;
- **FT** - pharmaceutical products

1.3. Normative documents for the development of PLO HPE

- **the Law of the Kyrgyz Republic "On Education"** dated April 30, 2003. No. 92 (with subsequent amendments).
- Provision on the educational organization of higher professional education of the Kyrgyz Republic, approved by the Government of the Kyrgyz Republic of February 3, 2004 No. 53.
- National program for reforming the health care system of the Kyrgyz Republic "Den Sooluk", developed for 2012-2016, approved by the Government of the Kyrgyz Republic of May 24 2012 No. 309;
- Regulatory legal acts regulating the activities of educational institutions of higher and secondary vocational education of the Kyrgyz Republic, approved by the Decree of the Government of the Kyrgyz Republic of May 29, 2012 No. 346.
- Charter of the KSMA (agreed with the Ministry of Education and Science of the Kyrgyz Republic of September 12, 2013, approved by order of the Ministry Healthcare of the Kyrgyz Republic dated 04.10.2013 No. 581 and registered by the Ministry of Justice of the Kyrgyz Republic dated 15.11.2013);
- Order of the Ministry of Education and Science of the Kyrgyz Republic "On approval of the Requirements for the structure, labor intensity to the mandatory minimum content of disciplines" (No. 556/1 of 28.08.2013);
- Decree of the Government of the Kyrgyz Republic "On the delegation of certain rule-making powers of the Government of the Kyrgyz Republic to a number of state executive authorities and the integration of higher professional education into the international educational space" dated September 15, 2014 No. 530.

- Order of the Ministry of Education and Science of the Kyrgyz Republic "On approval of state educational standards of higher professional education "dated September 15, 2015 No. 1179/1.
- State educational standard of higher professional education in the direction of training (specialty) 560005 "Pharmacy", approved by the Order of the Ministry of Education and Science of the Kyrgyz Republic dated September 15, 2015 No. 1179/1.
- Order of the Ministry of Education and Science of the Kyrgyz Republic "On Amendments to State Educational Standards and Curricula of HPE" (No. 1455/1 of November 27, 2017).
- Decree of the Government of the Kyrgyz Republic "On Approval of the Temporary Regulation on the Procedure for Licensing Educational Activities of the Kyrgyz Republic" (dated 23.07.2018 No. 334).
- Provision on the basic educational program of HPE, approved by the order of the rector of KSMA No. 411 dated 19.12.2018.
- Regulations on the current monitoring of progress and intermediate attestation, approved by the order of the rector of the KSMA dated 21.01.2018;
- Regulations on the elective course, approved by the order of the rector of KSMA dated 10.10.2017;
- Provision on independent work of students, approved by the order of the rector of KSMA dated 04.03.2013;
- Provision on industrial practice, approved by the order of the rector of KSMA dated 03.03.2018;
- Regulations on the final state certification of graduates of higher educational institutions of the Kyrgyz Republic (approved by the Government of the Kyrgyz Republic of May 29, 2012 No. 346).
- Provision on State Final Attestation, approved by order of the rector of KSMA No. 137 dated May 24, 2018;
- Provision on computer testing, approved by the order of the rector of KSMA dated 10.16.2018.

1.4. General characteristics of OEP HPE

In the Kyrgyz Republic, the SES HPE is being implemented in the specialty 560005 Pharmacy. Upon mastering the OEP HPE and successfully passing the state final certification, the graduate in the prescribed manner is issued a diploma of higher professional education with the assignment of the qualification Specialist (pharmacist).

A graduate in the specialty 560005 Pharmacy can continue his studies at the postgraduate level in residency in one of the specialties: pharmacist-manager, pharmacist-technologist, pharmacist-analyst, clinical pharmacist.

He has the right to work in pharmaceutical organizations, as well as to engage in research activities in the theoretical and fundamental areas of medicine and pharmacy.

1.4.1. The normative term for the development of OOP HPE.

The term for mastering the educational program is 5 years.

1.4.2. The total labor intensity of the educational program

The volume of the educational program is 300 credits, regardless of the form of education, educational technologies used. The complexity of one semester is equal to 30 credits with a two-semester structure of the educational process. Given the sequence of disciplines in the curriculum, the university has the right to vary the complexity of one semester from 28 to 32 credits, without exceeding the established 60 credits per academic year.

One credit (credit) is equivalent to 30 hours of student work (including classroom work, independent work and all types of certification). The total duration of 2-hour lessons is 90 minutes, 3-hour lessons - 135 minutes.

The academic year ends on time, according to the curriculum and calendar schedules of the university.

The total amount of vacation time in the academic year is 7-10 weeks, including at least two weeks in winter. The maximum volume of the study load of students per week is set by the State Educational Standard of Higher Professional Education and is 45 hours.

In the implementation of educational activities in the field of education, KSMA provides: the implementation of disciplines (modules) through training sessions (including current monitoring of progress and intermediate certification of students); implementation of practices (including certification of students) and state final certification of students. When organizing the educational activities of the KSMA, the modular principle of presenting the PLO HPE and building curricula can be used.

1.5. Requirements for the level of training required for mastering this educational program

The applicant must have a state-recognized document on secondary (complete) general education or secondary / higher professional education.

SECTION 2. CHARACTERISTICS OF THE PROFESSIONAL ACTIVITY OF THE UNIVERSITY GRADUATE BY SPECIALTY 560005 PHARMACY.

2.1. Purpose (mission) and objectives of the PLO HPE

Mission of the PLO training in the specialty "Pharmacy": creating conditions for the fundamental and practical orientation of the training of specialists based on international standards, domestic traditions of higher pharmaceutical education and ensuring the competitiveness of graduates in the domestic and foreign labor markets; for the implementation of lifelong education, maximally focused on the needs of the individual, society and the state.

2.1.1. The objectives of the PLO VPO in the specialty "Pharmacy" in the field of training and education of the individual.

In the field of training, the goal of the PLO HPE in the specialty "Pharmacy" is the training of a pharmacist with general and special competencies that allow him to carry out professional activities in the field of drug circulation.

In the field of personality upbringing, the goal of the PLO HPE in the specialty "Pharmacy" is the formation of social and personal qualities of students: purposefulness, humanism, organization, diligence, responsibility, citizenship, communication, tolerance, improvement of general culture.

To solve the set goals, the following tasks have been identified: -

meeting the needs of the individual in intellectual, cultural and moral development through higher education in the chosen field of professional activity;

- meeting the needs of society and the state for qualified specialists in the pharmaceutical industry;

- preservation and enhancement of moral, cultural and scientific values of society.

2.2.The area of professional activity of the specialist

The area of professional activity of graduates in the specialty "Pharmacy": -

health care (in the field of circulation of medicines, medical devices and other goods of the pharmaceutical range),

- administrative and managerial (in the field of circulation of medicines), -

education and science (in scientific research),

- other areas of activity related to health protection.

Graduates can carry out professional activities in other areas of professional activity and (or) areas of professional activity, provided that their level of education and acquired competencies correspond to the requirements for employee qualifications.

2.3. Objects of professional activity of graduates.

The objects of professional activity of graduates who have mastered the specialty program are:

-drugs;

- a set of tools and technologies aimed at creating conditions for the development, production, quality control, circulation of medicines and control in the field of medicines circulation in accordance with the established requirements and standards in the field of healthcare;

-Individuals and legal entities;

-population.

2.4. Types of professional activities of graduates.

The types of professional activities for which graduates who have mastered the specialty program are prepared:

- according to the National Classifier of Occupations, the main duties of a specialist in the field of pharmacy are to study pharmaceutical concepts and methods and develop recommendations for the use and manufacture of drugs;

- in accordance with the provisions of the regulatory documents of the Kyrgyz Republic governing activities in the field of drug circulation, a specialist can carry out **pharmaceutical activities in the following areas (types of activities):** -

organizational and managerial;

-control and permissive;

-production;

-sales of medicines and other goods of the pharmacy range;

-marketing;

-information-advisory and educational;

-chemical and toxicological;

-scientific research.

When developing and implementing a specialty program, an organization focuses on a specific type (s) of professional activity for which (which) the specialist is preparing and chooses a specialization based on the needs of the labor market, research and material and technical resources of the organization.

2.5. The tasks of the professional activity of graduates.

A graduate who has mastered the specialty program in the specialty 560005 Pharmacy, in accordance with the types of professional activity that the specialty program is focused on, is ready to solve the following professional tasks:

Pharmaceutical activity:

- production and manufacture of medicines; sale of medicines;
- provision of conditions for storage and transportation of medicines;
- participation in carrying out procedures related to the circulation of medicines;
- participation in quality control of medicines;
- providing information about medicinal products within the limits established by the current legislation;
- conducting sanitary and educational work with the population;
- formation of motivation of citizens to maintain health;

Organizational and managerial activities:

- participation in the organization of production and manufacture of medicines; organization and implementation of measures for the storage, transportation, seizure and destruction of medicines;
- participation in the organization and management of the activities of organizations involved in the circulation of medicines, and (or) their structural units;
- participation in the organization of measures for labor protection and safety, prevention of occupational diseases, monitoring compliance and ensuring environmental safety;
- maintaining accounting and reporting documentation in a pharmaceutical organization;
- compliance with the basic requirements of information security;

Research activities:

- analysis of scientific literature and official statistical reviews, participation in statistical analysis and public presentation of the results;
- participation in the solution of individual research and scientific-applied problems in the field of drug circulation.

**3. GENERAL REQUIREMENTS (COMPETENCES) TO OOP ON SPECIALTY.
COMPETENCES OF A UNIVERSITY GRADUATE AS A COMPLETE EXPECTED
RESULT OF EDUCATION ON THE COMPLETION OF THE DEVELOPMENT OF
THIS OOP HPE.**

The results of mastering OEP HPE are determined by the competencies acquired by the graduate, i.e. his ability to apply knowledge, skills and personal qualities in accordance with the tasks of professional activity.

A graduate in the specialty 560005 Pharmacy with the assignment of the qualification of a specialist "Pharmacist" in accordance with the goals of the OOP and the tasks of professional activity, must have the following competencies:

3.1. Universal competences	
3.1.1. General (general scientific) competences (GC)	
OK-1	Able and ready to analyze socially significant problems and processes, to use in practice the methods of humanitarian, natural science, biomedical and clinical sciences in various types of professional and social activities;
OK-2	Able and ready to analyze significant political events and trends, to master the

	basic concepts and laws of the world historical process, to respectful and careful attitude to the historical heritage and traditions, to assess the state policy, to form a civic position;
OK-3	Able and ready to assess morphofunctional, physiological conditions, pathophysiological processes in the human body, identify clinical syndromes of socially significant and most common diseases and emergency conditions for solving professional problems;
OK-4	Able and ready to use methods and means of physical culture to ensure full-fledged social and professional activity;
OK-5	Able and ready to use first aid first aid techniques.
3.1.2. Social and personal competences (SLC):	
SLC-1	Able and ready to implement ethical, deontological and bioethical principles in professional activities;
SLK-2	Able and ready for the analysis of worldview, socially and personally significant philosophical problems, basic philosophical categories, for self-improvement;
SLK-3	Able and ready to carry out its activities taking into account the moral and legal norms adopted in society, to comply with laws and regulations on working with confidential information, to bear social and ethical responsibility for decisions made;
SLK-4	Able and ready to work in a team, tolerantly perceive social, ethical, confessional and cultural differences;
SLK-5	Able and ready to analyze the results of his own activities to prevent professional mistakes, while being aware of disciplinary, administrative, civil and criminal responsibility.
3.1.3. Instrumental competencies (IC):	
IK-1	Able and ready to solve standard tasks of professional activity using information, bibliographic resources, biomedical and pharmaceutical terminology, information and communication technologies and taking into account the basic requirements of information security;
IK-2	Able and ready for written and oral communication in the state, official, foreign and Latin languages for solving professional problems;
IK-3	Able and ready to use basic physical and chemical, mathematical and other natural science concepts and methods in solving professional problems;
IK-4	Capable and ready to use specialized equipment and medical devices intended for use in the professional field;
IK-5	Able and ready to work with computer hardware and software for system and applied purposes for solving professional problems;
IK-6	Able and ready to apply the basic methods, methods and means of obtaining, storing, processing, transferring scientific and professional information using modern information and communication technologies;
3.2. Professional competences (PC):	
3.2.1. Pharmaceutical activities:	
3.2.1.1. Organizational and managerial, control and licensing:	
PC-1	Able and ready to participate in the implementation of the main provisions of the State Drug Policy of the Kyrgyz Republic;
PC-2	Able and ready to participate in organizing the activities of pharmaceutical organizations;
PC-3	Able and ready to apply the basic principles of management in the pharmaceutical industry, including in pharmaceutical organizations and their structural divisions;
PC-4	Able and ready to use the basics of economic and legal knowledge in professional

	activities;
PC-5	Able and ready to participate in the development and improvement of drugs, their production, examination, registration, preclinical, clinical trials in accordance with the requirements of international and national standards (GLP, GCP, GMP, GDP, etc.);
PC-6	Able and willing to participate in the implementation of an appropriate pharmacovigilance system;
PC-7	Able and ready to organize quality control of medicines in the conditions of pharmaceutical organizations;
3.2.1.2. Production:	
PC-8	Able and ready to carry out quality control of drugs during the period of their circulation on the market, including drug control in the process of its improvement and monitoring of undesirable effects;
PC-9	Able and ready to support the activities of pharmaceutical organizations in occupational health and safety, prevention of occupational diseases, monitoring compliance and ensuring environmental safety;
PC-10	Able and ready to assess the quality of medicinal plant materials (used plant organs, histological structure, chemical composition of active and other groups of biologically active substances);
PC-11	Capable and ready to ensure quality control of medicines in the conditions of pharmaceutical organizations;
PC-12	Able and ready to carry out technological processes in the production and manufacture of medicines in compliance with the requirements of international and national standards;
PC-13	Able and ready to organize the procurement of medicinal plant materials, taking into account the rational use of medicinal plant resources;
3.2.1.3. Sale of medicines and other goods of the pharmacy range, information and advisory and educational:	
PC-14	Able and ready to implement the sale of medicines in accordance with the rules of wholesale trade, the procedure for retail sale;
PK-15	Capable and ready to provide storage of medicines and medical devices;
PC-16	Able and ready to carry out the transportation of medicines, taking into account the principles of transport logistics and compliance with the requirements of the cold chain;
PC-17	Able and ready to participate in the procedures for importing medicines into the Kyrgyz Republic and exporting medicines from the Kyrgyz Republic;
PC-18	Able and ready to participate in the implementation of state programs of preferential drug provision at the outpatient and inpatient levels;
PC-19	Able and ready to take measures to timely identify expired drugs, expired drugs, counterfeit, counterfeit and substandard drugs, withdraw them from circulation for further destruction in accordance with applicable law;
PC-20	Able and ready to use communicative processes in management, communication with specialists of healthcare organizations, personnel of pharmaceutical organizations, patients, their relatives and carers, the population;
PC-21	Able and ready to provide information and advisory assistance to healthcare professionals and drug consumers in accordance with the rules of good pharmacy practice;
PC-22	Able and ready to carry out sanitary and educational work and motivate the population to maintain health and a healthy lifestyle;
PC-23	The ability and willingness to take part in the organization of the first pre-medical

	care for patients and victims in extreme, urgent and life-threatening situations;
PC-24	The ability and willingness to take part in providing assistance to the population in emergency situations at the stages of evacuation, including in organizing the supply of drugs and medical devices;
PC-25	Able and ready to participate in pharmacoeconomic analysis and pharmacoepidemiological research;
3.2.1.4. Chemical and toxicological:	
PC-26	Able and ready to participate in conducting chemical and toxicological research in order to diagnose acute drug poisoning, poisons, etc., narcotic and alcoholic intoxication;
3.2.1.5. Research:	
PC-27	Capable and ready for the analysis and public presentation of scientific pharmaceutical information;
PC-28	Able and ready to participate in the formulation of scientific problems and their experimental implementation;
PK-29	Able and ready to work with scientific literature, analyze information, search, turn what I read into a tool for solving professional problems (highlight the main provisions, consequences and proposals).

3.3. In accordance with the goals of the PLO HPE, the learning outcomes (RO) are highlighted:

As a result of the PLO training, a graduate in the specialty 560005 "Pharmacy" must have the skills and abilities of

RO 1. Able to use basic knowledge of mathematical, natural, humanitarian, economic sciences in professional work and new knowledge.

RO 2. Able to carry out business communication, reasonably and clearly express his thoughts in the state and official languages.

RO 3. Possesses the basic methods and skills of using computer programs for obtaining, storing and processing information.

RO 4. Knows how to work in a team, guided by moral and ethical standards based on tolerance, the desire for cooperation, strengthening mutual understanding between representatives of various social groups, ideological positions, national cultures.

RO 5. Knows how to apply professional knowledge and personal qualities for the purpose of self-realization, including in the latest fields of knowledge, the most significant areas of professional activity and social life.

RO 6. Able to organize the processes of manufacturing and production of medicines in accordance with the approved regulatory documents while ensuring a high level of quality, including sanitary and microbiological requirements;

RO 7. Knows how to determine the reserves of medicinal plant raw materials in nature, organize their preparation and drying;

RO 8. Able to carry out activities in the field of circulation of medicines, in the formation of budgetary and social policies in the health care system in accordance with the laws of the Kyrgyz Republic.

RO 9. Able to recognize responsibility for the results of his professional and scientific activities before the country and humanity, has an active civic position based on democratic convictions and humanistic values;

RO 10. Able to organize administrative and economic activities in the field of drug circulation and management of their structural units;

RO 11. Knows how to perform all types of pharmaceutical analysis of all types of medicinal products, including medicinal plant materials and excipients, in accordance with the requirements of regulatory documents;

RO 12. Able to carry out programs of research, advisory and outreach work in the field of pharmacy;

RO 13. Able to plan and organize the work of pharmaceutical organizations in conjunction with healthcare organizations to provide medical care to the population;

RO 14. Knows how to conduct chemical and toxicological studies in the system of forensic medical examination and other research institutions;

RO 15. Knows how to provide first pre-hospital medical aid to the population.

3.4. Structural matrix for the formation of competencies (Appendix No. 1, Matrix of competencies).

4. GENERAL REQUIREMENTS TO OF IMPLEMENTATION OF OOP

THE CONDITIONS 4.1. Requirements to the structure of OOP in the specialty

OOP in the specialty 560005 Pharmacy provides for the study of the following educational cycles:

C.1 - humanitarian, social and economic cycle;

C.2 - mathematical and natural science cycle;

C.3 - professional cycle;

and sections:

C.4 - additional types of training;

C.5 - practice.

Each cycle of disciplines has a basic (compulsory) part and an optional part set by the university.

The basic part is mandatory and ensures the formation of universal and professional competencies in students established by the State Educational Standard of Higher Professional Education, corresponding to the type (types) of professional activity to which (which) the educational program is focused.

The variable part is aimed at expanding and (or) deepening the competencies formed by the basic part of the educational program, at the formation of students' professional competencies established by the State Educational Standard of Higher Professional Education, and related to the types of professional activities that the educational program is focused on, as well as the formation of students' competencies, established by the KSMA in addition to the competencies established by the State Educational Institution of Higher Professional Education (if established). The content of the variable part is formed in accordance with the direction (profile) of the educational program.

The variable part consists of two parts: the university component and the disciplines of the students' choice.

4.2. Curriculum and educational calendar.

The curriculum for the specialty 560005 "Pharmacy" is the main document regulating the educational process and is drawn up taking into account the existing recommendations that ensure the formation of competencies. It ensures the consistency of the study of disciplines and the passage of practices based on their continuity, the rational distribution of disciplines by semester from the standpoint of uniformity of academic work. In the direction (specialty) 560005 "Pharmacy" there should be the following forms of curricula:

- basic curriculum - is drawn up by KSMA for the full normative period of study;
- working curriculum - is drawn up by KSMA for a specific academic year;
- Individual student curriculum. It determines the educational trajectory of each student, taking into account the disciplines of the student's choice.

When developing basic, working and individual curricula, the requirements of the State Educational Standard of Higher Professional Education in the relevant direction (specialty) of training must be met.

The curriculum indicates the total labor intensity of disciplines, modules, practices in credits, as well as their total and classroom labor intensity in hours. For each discipline, practice, the types of educational work, forms of intermediate and final control are indicated.

When forming his individual educational trajectory, a student has the right to receive advice from the dean's office of KSMA on the choice of disciplines and their impact on the future profile of training.

The calendar schedule of the educational process establishes the sequence and duration of theoretical training, examination sessions, internships, final state certification, student vacations and is developed taking into account the requirements of the State Educational Institution of Higher Professional Education.

4.3. Staffing of the educational process

The implementation of the main educational program for the training of a specialist should be provided by scientific and pedagogical personnel who have a basic education corresponding to the profile of the taught discipline, and an academic degree or experience in the relevant professional field and who are systematically engaged in scientific and / or scientific and methodological activities.

According to the Resolution of the Government of the Kyrgyz Republic "On Approval of the Temporary Regulation on the Procedure for Licensing Educational Activities of the Kyrgyz Republic" (dated July 23, 2018 No. 334), the proportion of full-time teachers to the total number of teachers of the educational program must be at least 70% of the total number of teachers of the educational program.

The share of teachers with an academic degree and / or academic title in the total number of teachers who provide the educational process in the main educational program for training a specialist must be at least 40%.

Up to 10% of the total number of teachers with an academic degree and / or academic title can be replaced by teachers with practical experience in this field in the positions of leaders or leading specialists for more than 10 recent years.

4.4. Educational, methodological and informational support of the educational process

The library fund is equipped with printed and / or electronic editions of the basic educational literature on the disciplines of the basic and variable parts of all cycles, published over the past 10 years.

Provision of compulsory textbooks - 0.5 per student, educational and methodical literature on specialties, methodological aids - 1: 1.

In the library, readers are served at 5 book-distribution terminals, 5 reading rooms for 317 seats, 3 halls of electronic resources for 35 seats.

The main educational program is provided with educational and methodological documentation and materials for all training courses, disciplines (modules) of the main educational program.

The official website of the library <http://library.kgma.kg/> functions in KSMA, where access to the electronic catalog of the library, a database of teaching aids and lectures online is provided, the following electronic resources are posted: clinical protocols, guidelines of the Ministry of Health of the Kyrgyz Republic, educational courses of the Kyrgyz scientific and educational computer network KRENA, Corporate repository of abstracts, Kyrgyz virtual scientific library www.kyrgyzstanvsl.org, Russian scientific electronic library, Electronic resources eIFL, Polpred.com. Every year, the teaching staff publish educational and methodological developments and other publications, including in the Kyrgyz language.

Extracurricular work is accompanied by methodological support and justification of the time spent on its implementation and control.

The implementation of basic educational programs is ensured by the access of each student to databases and library funds, formed according to the full list of disciplines (modules) of the basic educational program. During self-study, students are provided with access to the Internet.

The library fund of the KSMA is equipped with printed and / or electronic editions of the main educational literature in the disciplines of general scientific and professional cycles.

The fund of additional literature, in addition to educational, includes official, reference-bibliographic and periodicals in the calculation of 1-2 copies for every 100 students.

Mandatory textbooks and teaching aids are determined by curricula based on the requirements of the SES. Replicated copies of lecture notes and electronic textbooks are used as textbooks.

Each student is provided with access to sets of the library fund, consisting of the following list of titles of journals -

domestic: -

Healthcare of Kyrgyzstan -

Bulletin of the Kyrgyz State Medical Academy -

Central Asian Medical Journal of

foreign: -

Antibiotics and chemotherapy

-

Biotechnology Bulletin of Pharmacy

-- Journal of Microbiology, Epidemiology Immunology

-Klinicheskaya medicine

-Klinicheskaya pharmacology and Therapeutics

-Klinicheskaya pharmacology and pharmacoeconomics

-Russian Medical journal

-Rastitelnye resources

-Farmatsiya

-Himiko pharmaceutical journal

-Eksperimentalnaya and clinical pharmacology

Pharmacy -Vestnik (Kazakhstan)

provided to the students the possibility of rapid exchange of information with domestic and foreign universities, enterprises and organizations, provided access to modern professional databases, information reference and search systems, such as:

- reference materials of the Ministry of Health of the Kyrgyz Republic;

- information retrieval system for intellectual property, patents and trademarks;

-databases on electronic components (medical search engines - MedExplorer, MedHunt, PubMed, etc.).

4.5. The material and technical support of the educational process of

KSMA, which implements the basic educational programs for training specialists, has a material and technical base that provides all types of laboratory, disciplinary and interdisciplinary training, practical and research work of students, provided for by the curriculum of the university and corresponding to the current sanitary and fire safety rules and regulations.

The list of material and technical support, minimum necessary for the implementation of OOP training of specialists, includes:

- laboratories for physics, chemistry, biochemistry; biological chemistry; biology; physiology; microbiology and virology; pharmacology; pathological anatomy; pathophysiology;
- anatomical hall, anatomical museum, corpse storage;
- specially equipped classrooms and auditoriums for the study of humanitarian and socio-economic disciplines, hygiene, public health and health care;
- classrooms equipped for the study of special subjects (pharmaceutical chemistry, drug technology, modular pharmacy);
- rooms equipped for receiving and showing patients (CRKNOZPP);
- medical offices equipped with the necessary equipment for working with children and adolescents receiving preventive, diagnostic, therapeutic (therapeutic and surgical) and rehabilitation assistance.

According to licensing requirements, when using electronic publications, the university must have at least 7 computers with Internet access per 100 students.

When using electronic publications, KSMA provides each student during self-preparation with a workplace in a computer class with Internet access in accordance with the volume of disciplines studied.

The university is provided with the necessary set of licensed software.

The useful area per student is 9m², which fully complies with the requirements of the Decree of the Government of the Kyrgyz Republic “On Approval of the Temporary Regulation on the Procedure for Licensing Educational Activities of the Kyrgyz Republic” (dated 23.07.2018 # 334).

4.6. Research work

Research work is a mandatory section of the OOP specialist training. It is aimed at the integrated formation of general cultural and professional competencies in accordance with the requirements of the State Educational Standard of Higher Professional Education approved by the decree of the Government of the Kyrgyz Republic of September 15, 2015.

When developing a program of research work, a higher educational institution provides students with the opportunity to:

- study special literature and other scientific and technical information about the achievements of domestic and foreign science and technology in the relevant field of knowledge;
- participate in scientific research or technical development;
- to collect, process, analyze and systematize scientific and technical information on the topic (task);
- take part in bench and industrial tests of prototypes (batches) of designed products;
- draw up reports (sections of the report) on the topic or its section (stage, task);
- make a presentation at the conference.

In the process of performing research work and evaluating its results, a broad discussion is held in the educational structures of the university with the involvement of employers, which makes it possible to assess the level of competencies formed by the student.

4.7. Characteristics of the environment that ensures the development of general cultural and socio-personal competencies of graduates

sociocultural environment is created as a result of the implementation of the main directions of educational, educational and research activities of the faculty. The socio-cultural environment of the medical academy ensures the development of social and personal competencies and contributes to the successful completion of the period of study by students from acquiring the skills of organizing educational and extracurricular work, acquaintance with the history and culture of our multinational republic, with the cultural and scientific traditions of the medical academy to readiness for professional activity.

In KSMA there are a number of divisions created to manage social and cultural processes that contribute to strengthening the moral, civic, patriotic and general cultural qualities of students: the department of educational work, student clubs, NOMUS.

The department for educational work was created to control and organize educational work in the KSMA. The concept of educational work is aimed at creating conditions for the formation of a comprehensively developed viable personality in a graduate, who will be able to adequately respond, quickly adapt to changing conditions, make managerial decisions, have a humanistic orientation and high citizenship, focus on professional success and creative aspiration, intelligence, social activity and enterprise. The department for educational work actively cooperates with art institutions and social services. His work is aimed at maintaining an atmosphere of respect at the university for the people around him and the world in general.

The representative body of student self-government of the academy is the Student Council. Student Council - student government body, organizer of all academic events for

students. The Student Council of the Academy carries out work in the following areas: interaction with other institutions and organizations of the student environment; development of students' initiatives aimed at improving the learning environment outside of school life; active participation of students in the organizational and technical work of the Academy: exhibitions, conferences, scientific seminars; organization of leisure and recreation of successfully studying students; development and implementation of measures to increase the responsibility of students for the timely implementation of their curricula, academic discipline and rules of conduct at the Academy; representing the interests of students at all levels of the Academy leadership; activation of the management processes of student collectives and their involvement in the social life of the Academy; creation of a single information space for students and administrations of the Academy; participation in the distribution of the scholarship fund and the provision of material assistance to needy students. The Student Council is constantly developing and expanding the range of its activities: the cultural sector, the sports sector, the department of interuniversity relations; social development sector, fundraising sector, information sector, debate club of KSMA, intellectual club "Alliance Club", KVN.

In KSMA, such student clubs as the literary club "Conconiere", the debate club "We & World" are actively functioning. Literary club "Conconiere" is a creative club that unites talented students - poets and academy teachers. It was created and works in order to jointly improve literary abilities, increase creativity and achieve heights in the field of literature. Literary club "Conconiere" is guided in its activities by generally accepted standards of morality, ethics and high spiritual values.

In order to educate young people in the spirit of patriotism, preserve the cultural traditions of the Kyrgyz people and develop creatively aspiring youth, the ensemble of komuzists "Min - Kyyal" was created, which takes an active part in various events of the city and republican scale.

For teaching those wishing to learn the basics of dancing, a variety of leisure activities for students, for the development of their creative abilities and the discovery of new talents, the Academy has a dance studio "Avangard".

With the aim of uniting young scientists and students, expressing their interests, helping to improve their professional level, through active participation in the development of applied and fundamental science and more fully realizing the scientific potential of young scientists and students, the Scientific Society of Young Scientists and Students (NOMUS) was organized ... At present, the tasks of NOMUS are: -

assistance in the coordination of scientific, educational and practical activities of young scientists and students of KSMA;

-unification and coordination of the activities of all student scientific circles of the departments of KSMA, as well as students engaged in scientific work under the individual guidance of teachers;

-assistance in organizing and conducting experimental and research work of students and young scientists at the departments and laboratories of the ESC BMI;

- assistance in organizing and conducting scientific and practical conferences, seminars and educational forums of the KSMA;
- cooperation with the councils of young scientists from other organizations and universities;
- organization and holding of scientific and practical conferences of young researchers of KSMA;
- Promoting the participation of the best scientific works of young scientists and students of KSMA in republican and international conferences, symposia, congresses.

There are many sports sections in KSMA, sports days in various sports, interfaculty sports competitions are held annually.

With the aim of rewarding students for excellent studies, active participation in social, scientific and sports life, students are nominated for various personal scholarships and awards.

Students studying at the expense of the budget are provided with scholarships and other measures of social support in the manner prescribed by the legislation of the Kyrgyz Republic. All students of socially unprotected categories are provided with a hostel; they are primarily provided with one-time material assistance.

Sociocultural competencies of students are formed in close cooperation with the curators of the groups.

The library complex, the dean's office and curators of the groups, the student trade union committee participate in the formation of the socio-cultural environment and in the educational activities of students. This work also ensures the development of general cultural and socio-personal competencies.

Civil, patriotic, spiritual and moral education is provided through participation in the patronage of veterans, holding conferences and events dedicated to the Great Patriotic War; patronage of orphanages and nursing homes is carried out. KSMA regularly holds thematic evenings about the heroes of the Great Patriotic War, Afghan warriors and Batken events. Meetings of students with labor veterans, Honorary Citizens of the city, poets and musicians are organized. Through the efforts of students, charity events are held, the proceeds from which are sent to orphanages.

To implement measures to improve the health of young people and to provide medical assistance to students, a student clinic and a medical center of KSMA were created, in which students are provided: primary (pre-medical) medical and sanitary care; outpatient medical care; examination of temporary disability (exemption from classes; issuance of documents allowing the registration of academic leaves for health reasons); anti-epidemic measures (vaccinations, identification of infectious patients; dynamic observation of contact and convalescents).

In KSMA, all conditions are created and maintained for a successful dialogue between students of different countries and peoples, between representatives of various religious confessions. Foreign students actively participate in all extracurricular activities, become part of the student community. Thus, they get to know much better not only the country in which they

receive education, but also the culture of the region, and this process has a positive effect on both foreign and our students: internationalism, tolerance, and recognition of the values of others are brought up in close cooperation and commonwealth. cultures and peoples. Cultural, mass and sports events aimed at studying, understanding and respecting the traditions and cultures of various nationalities and religious confessions have become traditional at the university.

Thus, KSMA has the necessary opportunities to create conditions for the formation of general cultural (social and personal) competencies of students, which is confirmed by successful career growth and professional achievements of graduates.

4.8. Organization and conduct of courses of choice of students (CPV).

Courses at the choice of students are organized and implemented in accordance with the Regulations on the CPV (elective), approved by the order of the rector of the KSMA dated 10.10.2017.

The organization of the CPV provides for the formation of additional knowledge of students in individual disciplines, blocks of disciplines or disciplines of specializations.

CPV are offered by the departments, taking into account the direction of study (specialty) for each of the sections of the curriculum and are recorded in agreement with the educational department in the working curricula. CPV in the sections of the working curriculum by content, as a rule, complement the compulsory disciplines of these sections.

The volume of credits allocated for elective courses is in accordance with the State Educational Standard.

4.9. Organization of students' independent work.

Independent work of students (hereinafter IWS) is an educational, research and socially significant activity of students aimed at developing general and professional competencies, which is carried out without the direct supervision of the teacher, but with his guidance, consultation and control. IWS is organized and implemented in accordance with the Regulations on the independent work of students, approved by the order of the rector of KSMA dated 04.03.2013.

Independent work is an integral part of the educational process. In accordance with the requirements of the State Educational Institution of Higher Professional Education, it should be 50% of the total hours provided for mastering the basic educational program in the humanitarian block and 30% in the professional block.

The types of IWS are determined by the requirements of the State Educational Standard, the content of the academic discipline, the degree of preparedness of students and are approved by the department when developing an educational and methodological complex (work program), an academic discipline (module) of the main educational program.

The methodology for organizing the IWS depends on the structure, nature and characteristics of the discipline being studied, the amount of hours for its study, the type of tasks for independent work of students and the conditions of educational activity.

The organization of the IWS is aimed at completing all the planned tasks by all students on time and with the required level of quality, which is a prerequisite for the formation of self-discipline and self-control skills.

IWS planning is carried out within the framework of each main educational program. CDS is accompanied by methodological support and justification of the time spent on its implementation. The thematic plan of the IWS, taking into account the hours required for their implementation, is written in the curriculum, and the types and forms of IWS control are established by the department and reflected in the educational and methodological complexes of each discipline (module).

Control over the progress and results of the IWS is carried out by the teacher of the discipline systematically, including in the process of conducting classroom lessons (lectures, seminars, practical and laboratory). The results of the CDS are assessed during the current control and are taken into account during the intermediate certification of students in the discipline under study.

Independent work of students is divided into classroom and extracurricular.

Independent (classroom) work of students takes place under the supervision of the teacher and involves the determination of group or individual cognitive educational tasks (tasks) for students, their independent implementation by students under the methodological and organizational guidance of the teacher.

Classroom independent work of students provides for:

- performance of independent work;
- execution of control and laboratory work, drawing up diagrams, diagrams;
- solving problems;
- work with reference, methodological and scientific literature;
- protection of the work performed;
- interview, business games, discussions, conferences;
- testing, etc.

The amount of time for classroom independent work of students is included in the total amount of time for their classroom work and is regulated by the schedule of classes (chronocard of the lesson).

Independent (extracurricular) work of students - planned educational, educational and research, research work performed during extracurricular time on the assignment and with the methodological guidance of the teacher, but without his direct participation:

- mastering knowledge: reading the text (textbook, primary source, additional literature) ; drafting a text plan; graphic representation of the structure of the text; note-taking of the text;

familiarization with regulatory documents; educational research work; analysis of the content of audio and video recordings, Internet resources, etc.;

- consolidation and systematization of knowledge: work with lecture notes; work on educational material (textbook, primary source, additional literature, audio and video recordings); drawing up a plan and theses of the answer; compilation of tables for the systematization of educational material; analysis of regulatory documents; answers to security questions; analytical text processing (annotation, reviewing, abstracting, etc.); preparation of abstracts of messages for presentation at a seminar, conference; preparation of abstracts, reports: compilation of bibliography, thematic crosswords, etc.;
- formation of skills: solving problems and exercises; solving situational production (professional) tasks; preparation for business games; design and modeling of different types and components of professional activity; preparation of term papers; forecast of the development of the situation (for example, environmental).

Criteria for assessing the results of a student's independent (extracurricular) work: the

- level of mastering the educational material, the
- ability to use theoretical knowledge when performing practical tasks, the
- completeness of general educational ideas, knowledge and skills on the topic under study, to which this independent work belongs, the
- validity and clarity of the presentation of the answer to the extracurricular independent work question,
- registration of reporting material.

4.10. Organization and implementation of industrial practice

Students' practices (hereinafter referred to as PP) is the most important part of the educational process in the preparation of specialists with higher pharmaceutical education and is a systematic and purposeful activity of students to master practical skills and in-depth consolidation of theoretical knowledge at each stage of training.

The purpose of the internship is to teach students practical skills and prepare them for independent professional activities in their chosen specialty.

All practices are regulated by the Regulations on the industrial practice of students of KSMA, approved by the rector. Management, coordination and methodological support of the practice is carried out by the department of industrial practice of the KSMA. Responsible teachers are appointed to guide the practice of students at the departments.

The practice is carried out in accordance with the work programs for industrial practice, developed at the relevant departments, reviewed at the educational and methodological profile committee (hereinafter UMPK) in the specialty Pharmacy and approved by the main educational and methodological committee (hereinafter GUMK) of the KSMA named after IK Akhunbaeva.

When implementing the basic educational program in the specialty 560005 "Pharmacy", the following practices are envisaged:

Educational practice.

Types of educational practice:

- practice in obtaining primary professional skills;
- medical familiarization practice.

Industrial practice.

Types of industrial practice:

- practice in obtaining professional skills, including primary skills and research skills;
- practice for obtaining professional skills and experience of professional activity.

Methods of conducting educational and industrial practice:

- stationary;
- exit.

Practices are carried out at production and clinical bases with which the relevant agreements have been concluded.

The bases of production practices are pharmaceutical organizations and healthcare institutions.

1. LLC "Ak-Tan"
2. LLC "Pharm-E"
3. OJSC "Pharmacy 155"
4. Pharmacy GKB No. 1
5. Pharmacy NTSO
6. Pharmacy No. 401
7. OJSC "Pharmacy" Pharmacy 156
8. Pharmacy at NCP and
- DK 9. Pharmacy # 325 of the National Hospital
10. Pharmacy at GDKBSMP 3
11. LLC "Pharmacy-Metropol"
12. LLC "ZHAAK"
14. BNITSTOCity
15. Pharmacy at Clinical Hospital # 6
16. LLC "Imex"

17. LLC " Galenpharm
18. Biovit LLC
20. Pharmacy 115 at the Regional Center for Drugs
21. Asia Medical-Trade LLC
22. Neman-Pharm LLC
23. Pharmamir LLC
24. Aqua-Medtek LLC
25. Asian LLC Med Trade
26. Galenpharm LLC
27. BMG Pharm LLC
28. Private Enterprise Zhorobaeva KM
29. DLO and MT MH KR
30. Southern branch of DLO and MT MH KR
31. Yunikhelph LLC
32. Plasma LLC
33. Rhodiola-Pharm LLC
34. Lin LLC
35. EraiPharm LLC
36. Farvater LLC
37. Prima International LLC
38. Umut Pharmacy
39. JV Medpharm LLC
40. Medlife LLC
41. Sunlight LLC
42. Bimed-Pharm LLC
43. Avangard Plus LLC "
44. Botanical Garden named after E.Z. Gareev of the National Academy of Sciences of the Kyrgyz Republic

45. Institute of Chemistry and Phytotechnology of the National Academy of Sciences of the Kyrgyz Republic

During the internship, all students fill out a diary where they daily write down the work performed for the day, which is signed by the direct supervisor from the production base. Upon completion of the PP, the student draws up a report on the PP, certifying it with the signature of the head of the practice and the seal of the healthcare institution. At the end of the PP, the student takes a credit with a differentiated assessment to the head of the practice.

5.0. PROCEDURE AND ORGANIZATION OF QUALITY ASSESSMENT OF STUDENTS'S DEVELOPMENT OF THE EDUCATIONAL PROGRAM

In KSMA, the assessment of the quality of mastering the educational program by students is ensured through the implementation of the following directions: -

- creation of a quality management system for the educational process;
- monitoring of updating and reviewing of work programs by discipline;
- ensuring the professionalism and competence of the teaching staff;
- regularly conducting an internal audit according to agreed criteria for assessing the performance and comparing the quality indicators of the educational process with other medical educational institutions (with the involvement of representatives of the employer);

In accordance with the State Educational Standard of Higher Professional Education in the specialty 560005 Pharmacy, the assessment of the quality of mastering by students of basic educational programs includes current monitoring of progress, intermediate and state final certification of students.

The appraisal funds are presented in the form of appraisal funds.

The following forms of control are used at the departments:

- current control (carried out in the study of each discipline in order to check and correct the development of theoretical material, practical skills and abilities);
- intermediate control (carried out at the end of the study of one of the sections of the discipline in order to assess the level of knowledge, abilities and skills obtained during its study);
- final control (a test or an exam in disciplines provided by the curriculum is carried out in order to check the mastery of the discipline as a whole).

Current and intermediate control of progress serves as the main means of providing feedback between the teacher and the student in the educational process, which is necessary to stimulate the work of students and improve the teaching methods of academic disciplines.

5.1. The forms of current monitoring of progress include:

- oral questioning;
- test control;
- checking the completion of written homework;
- protection of laboratory work;
- assessment of control works;
- checking the solution of situational tasks;
- assessment of the level of mastering practical skills;
- evaluation of the implementation of abstracts, reports, expert reports, etc .;
- control of work with biological material, medicinal plant raw materials, medicines;
- other forms of control.

5.2. Intermediate certification (exam, test) is carried out in accordance with the Regulations on the current monitoring of progress and intermediate attestation, approved by the order of the rector of KSMA dated January 21,

2018. The test is a form of final verification of the students' mastery of theoretical material and practical skills in the academic discipline, as the form of checking the results of the practical training. In accordance with the working curricula of specialties, credits can be established both for the subject as a whole and for its individual parts. The tests are carried out after the completion of all types of training sessions provided for in the curriculum in the relevant discipline before the start of the examination session.

The exam is a form of the final test of the students' assimilation of theoretical material and practical skills in the academic discipline. Examinations are taken during the periods of examination sessions provided by the curriculum. The list of exams and tests, as well as the period of their conduct, are established by the curriculum. Examinations in all disciplines are conducted in the form of computer testing. At all departments, in accordance with the changes taking place, educational and methodological complexes of disciplines are regularly updated, including a bank of test tasks.

KSMA ensures the quality of training, including by: developing a strategy to ensure the quality of training for graduates; reviewing educational programs; development of objective procedures for assessing the level of knowledge and skills of students, competencies of graduates.

5.3. final attestation

State final attestation (GIA) of a graduate of a higher educational institution is mandatory and is carried out after he has completed the educational program in full.

The final certification tests are designed to determine the practical and theoretical preparedness of a graduate to perform professional tasks established by the state educational standard, and to continue education in residency or postgraduate studies.

The student must show his ability and readiness, relying on the acquired in-depth knowledge, skills and formed general cultural and professional competences, independently solve the problems of his professional activity at the modern level, professionally present special information, scientifically argue and defend his point of view.

Tickets and additional certification materials are drawn up taking into account the goals and requirements of qualification characteristics, curricula, work programs, recommendations, regulations, instructions of the educational and methodological department of KSMA. Tickets are formed in advance, discussed at meetings of departments, reviewed by teachers of related departments, discussed and approved at meetings of the UMPK "Pharmacy", UMPK of the Faculty of Pharmacy, the graduating departments are constantly working on improving the conduct of the GIA in order to most fully objectively determine the level of preparedness of graduates.

Students who do not have academic debt and who have fully completed the curriculum or individual curriculum are admitted to the GIA.

The purpose of the final state certification is to establish the level of preparedness of the graduate to perform professional tasks and the compliance of his training with the requirements of the state educational standard of higher professional education (SES HPE).

The total labor intensity of the final state certification is 30 hours for the 2018-2019 academic year. The commissions are guided in their activities by the "Regulations on the final state certification of graduates of higher educational institutions of the Kyrgyz Republic" (approved by the Government of the Kyrgyz Republic of May 29, 2012, No. 346) and the Regulations on the State final certification, approved. by order of the rector of KSMA No. 137 dated 05.24.2018.

State final certification is carried out in stages according to the schedule and includes mandatory certification tests:

1. Domestic history (test exam at the end of the 4th semester)
2. Interdisciplinary comprehensive examination in the specialty at the end of the 10th semester:
 - 1st stage - computer testing;
 - 2nd stage - interdisciplinary practical exam;
 - 3rd stage - interview.

Subject to the successful completion of all established forms of conducting the GIA, the graduate of the academy in the specialty 560005 Pharmacy is awarded the qualification "Pharmacist" and a state diploma of higher professional education is issued.

SECTION 6. DOCUMENTS REGULATING THE CONTENT AND ORGANIZATION OF THE EDUCATIONAL PROCESS WHEN IMPLEMENTING PLO HPE

The content and organization of the educational process in the implementation of PLO in the specialty "Pharmacy" are regulated by:

- GOS HPE in the direction of "Pharmacy", approved by order No. 1179 MES 2015;
- the curriculum of the KSMA for the 2018-2019 academic year;
- teaching materials of disciplines;
- the annual calendar of the educational process;
- the GIA program;
- other regulatory documents of the KSMA;