

**FEDERAL STATE BUDGETARY EDUCATIONAL INSTITUTION  
OF HIGHER EDUCATION  
"BASHKIR STATE MEDICAL UNIVERSITY" OF THE MINISTRY  
OF HEALTHCARE OF THE RUSSIAN FEDERATION**



Rector

APPROVED

V. N. Pavlov

"25" 09 2023

**EDUCATIONAL PROFESSIONAL PROGRAMME OF HIGHER EDUCATION**

Education level - higher (Specialist's programme)

Specialty 33.05.01 Pharmacy

Qualification – Pharmacist

Mode of study - Full-time

Year of admission: 2023

Ufa-2023

Regulatory documents underlying the development of the educational programme:

1) Federal State Educational Standard of Higher Education - Specialty 33.05.01 Pharmacy, approved by order of the Ministry of Education and Science of Russian Federation dated March 27, 2018 No. 219;

2) Curriculum of the Specialty 33.05.01 Pharmacy, approved by the Academic Council of the Federal State Budgetary Educational Institution of Higher Education BSMU of the Ministry of Healthcare of Russian Federation dated 25.04.2023, Protocol No. 4.

3) Occupational standard "Pharmacist" approved by order of the Ministry of Labor and Social Protection of Russian Federation dated March 9, 2016 No. 91 n.

Educational programme of higher education in the Specialty 33.05.01 Pharmacy was approved by the Academic Council of the Faculty of Pharmacy 25.04.2023, protocol No. 4.

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## Content

<b>1</b>	<b>General Provisions</b>	<b>4</b>
1.1.	The regulatory and legal framework for the development of the educational programme	4
1.2.	General characteristics of the Specialty	4
1.3.	Characteristics of the professional activity of the specialist	6
1.3.1.	Functional card of the types of professional activity	6
1.3.2.	Characteristics of generalized labor functions	7
1.3.3.	Labor functions	8
1.4.	Learning conditions for students with disabilities	15
<b>2.</b>	<b>Expected outcomes of mastering EPPHE (competencies)</b>	<b>17</b>
2.1.	Universal competencies (UC)	17
2.2.	General professional competencies (GPC)	19
2.3.	Professional competencies (PC)	21
2.4.	Matrix of competencies and table of the level of their development in accordance with the work programmes of disciplines	28
<b>3.</b>	<b>Documents regulating the content and organization of the educational process in the implementation of the EPPHE</b>	<b>54</b>
3.1.	Curriculum and Calendar curriculum	54
3.2.	Work programmes of disciplines	55
3.3.	Practice programmes	55
3.4.	State final certification programme	56
<b>4.</b>	<b>Conditions for the implementation of EPHE</b>	<b>56</b>
4.1.	Staffing	56
4.2.	Material and technical support for the implementation of the EPHE	57
<b>5.</b>	<b>Normative and methodical support of the system for assessing the quality of mastering by students of EPHE</b>	<b>58</b>
5.1.	Assessment materials to determine the development of competencies	58
5.2.	Assessment materials for the State final certification of graduates	59
<b>6.</b>	<b>Educational work programme</b>	<b>59</b>

### **1.1. The regulatory and legal support of the educational programme**

The educational program of higher education is developed on the basis of:

1. Federal Law "On Education in the Russian Federation" No. 273-FZ of December 29, 2012 (with amendments and additions)
2. Federal State Educational Standard of Higher Education - Specialty 33.05.01 Pharmacy, approved by order of the Ministry of Education and Science of Russian Federation dated March 27, 2018 No. 219 and Occupational standard "Pharmacist" approved by order of the Ministry of Labor and Social Protection of Russian Federation dated March 9, 2016 No. 91 n;
3. Order of the Ministry of Education and Science of the Russian Federation of April 6, 2021 N 245 "On approval of the procedure for organizing and carrying out educational activities for educational programmes of higher education - bachelor's programmes, specialty programmes, master's programmes";
4. Order of the Ministry of Education and Science of the Russian Federation of September 12, 2013 No. 1061 "On approval of the lists of specialties and areas of training for higher education" (with amendments and additions);
5. Order of the Ministry of Education and Science of the Russian Federation of June 29, 2015 No. 636 "On approval of the procedure for conducting state final certification for educational programmes of higher education - bachelor's programmes, specialist programmes, master's programmes";
6. Order of the Ministry of Education and Science of the Russian Federation of August 23, No. 816 "On Approval of the Procedure for the Use of e-learning, distance learning technologies by organizations engaged in educational activities in the implementation of educational programmes" (with amendments and additions); (1.09.2023 The Order of the Ministry of Education and Science of the Russian Federation No. 465, the Ministry of Education of the Russian Federation No. 345 of 19.05.2022 "On invalidation of the Order of the Ministry of Education and Science of the Russian Federation of August 23, 2017 No. 816" comes into force);
7. Order of the Ministry of Education and Science of Russia No. 885, Ministry of Education of Russia No. 390 dated 05.08.2020 "On practical training of students";
8. Regulatory and methodological documents of the Ministry of Education and Science of the Russian Federation;
9. Charter of the FSBEI HE BSMU of the Ministry of Healthcare of Russian Federation and other local acts of the University.

### **1.2. General characteristics of the educational Specialist's programme**

Training under the programme of the specialty 33.05.01 Pharmacy aims to develop personal qualities in students and the formation of 10 universal, 6 general professional and 14 professional competences in accordance with the Federal State Educational Standards of Higher Education.

The goals (mission) of the programme in the Specialty 33.05.01 Pharmacy is to create conditions for the fundamentality and practical orientation of training specialists based on international standards, domestic traditions of higher medical and pharmaceutical education and ensuring the competitiveness of graduates in the domestic and foreign labor markets; for the implementation of continuing education, maximally focused on the needs of the individual, society and the state.

Training under the Specialist's programme is allowed only in the educational organization of higher education (hereinafter referred to as the organization).

Training under the Specialist's programme in the organization is carried out in full-time mode.

The volume of the Specialist's programme is 300 credit units (hereinafter - c.u.) regardless of the applied educational technologies, the implementation of the Specialist's programme using the network form, the implementation of the specialization program according to the individual curriculum.

The term of training under the Specialist's programme (regardless of the applied educational technologies): in full-time education, including holidays provided after passing the state final certification, is 5 years;

when studying according to the individual curriculum, persons with disabilities may be increased by no more than 1 year upon their application compared to the period of education established for full-time education.

The volume of the specialization program implemented in one academic year is not more than 70 c.u., regardless of the educational technologies used, the implementation of the Specialist's programme using the network form, the implementation of the Specialist's programme according to the individual curriculum (with the exception of accelerated training), and with accelerated training - no more than 80 c.u.

When implementing the Specialist's programme, the Organization has the right to apply e-learning, distance learning technologies.

E-learning, distance educational technologies used in the education of persons with disabilities and persons with disabilities (hereinafter referred to as disabled persons and persons with disabilities) should provide for the possibility of receiving and transmitting information in forms accessible to them.

Implementation of the specialization program with the use of exclusively e-learning, distance learning technologies is not allowed.

The implementation of the Specialist's program is carried out by the Organization both independently and through the network form.

Training is carried out in the state language of the Russian Federation, unless otherwise determined by the local regulatory act of the organization.

The labor intensity of the specialization program is 300 c.u. One credit unit is equivalent to 36 academic hours lasting 45 minutes of contact or extracurricular (independent) work of the student.

The program of specialization in the specialty 33.05.01 Pharmacy includes 3 sections: "Disciplines (modules)", "Practical training" and "State final certification».

Table 1

**Structure of the Specialist's programme in the Specialty 33.05.01 Pharmacy**

Structure of the Specialist's Program		The volume of the Specialist's programme in c.u.
Section 1	Disciplines (modules)	255
Section 2	Practical training	42
Section 3	State Final Certification	3
The work load of the Specialist's Programme		300

Fields of professional activity of the graduate.

01 Education and science (in the field of scientific research);

02 Healthcare (in the field of circulation of medicines and other pharmacy products);

07 Administrative, managerial and office activities (in the field of circulation of medicines).

Graduates may carry out professional activities in other areas of professional activity, provided that the level of their education and the competences obtained meet the requirements for the qualification of the employee.

Objects of professional activity of the graduate:

-medicines;

-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 circulation of medicines in accordance with established requirements and standards in the field of healthcare;

-individuals and legal entities;

-population.

Types of professional activity of the graduate:

-pharmaceutical;

-expert-analytical;

-organizational and managerial;

Additional types of professional activities:

- control and licensing;
- production of medicines;
- research and development.

When developing and implementing specialist's programmes, an educational organization focuses on a specific type (types) of professional activity, for which a specialist is trained, based on the needs of the labor market, research and material and technical resources of the educational organization.

#### Tasks of professional activity of the specialist.

##### **-Pharmaceutical activity:**

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

##### **-Expert-analytical activity:**

quality control of pharmaceutical substances, purified water for injection, concentrates, semi-finished products, medicines manufactured in a pharmacy organization; meeting the needs of consumers with safe, effective and high-quality medicines, medical devices and other goods allowed for sale and / or release in a pharmaceutical organization.

##### **- 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 engaged in the field of circulation of medicines, and (or) their structural units; participation in the organization of measures on labor protection and safety, prevention of occupational diseases, compliance control and environmental safety; maintenance of accounting and reporting documentation in a pharmaceutical organization; compliance with the basic requirements of information security.

##### **- Production of medicines:**

organization, maintenance of technological processes and control of technological processes in the industrial production of medicines (synthetic, biological, immunobiological, biotechnological, gene therapy, radiopharmaceutical, homeopathic, natural origin and medical gases); activities on the organization, maintenance of technological processes and control of technological processes in the industrial production of medicines.

##### **- Research activities:**

analysis of scientific literature and official statistical reviews, participation in statistical analysis and public presentation of the results obtained; participation in solving certain research and scientific-applied problems in the field of circulation of medicines.

### **1.3. General Characteristics of the professional activity of the specialist**

#### **1.3.1. Functional map of the type of professional activity**

Generalized labor functions			Labor functions		
code	Name	skill level	Name	code	level (sublevel) of qualification
	Qualified pharmaceutical assistance to the population medical patients, organizations, work, bringing services medicinal drugs, medical products, other goods allowed to leave in pharmacies organizations, up to end user	7	Wholesale, retail trade, dispensing of medicines and other pharmacy goods	A/01.7	7
			Carrying out acceptance control of medicines and other pharmacy goods entering the organization	A/02.7	7
			Ensuring the storage of medicines and other pharmacy products assortment	A/03.7	7

			Informing the public and medical workers about medicines and other pharmaceutical products	A/04.7	7
			Manufacturing of medicinal drugs in the conditions of pharmacy organizations	A/05.7	7

### 1.3.2. Characteristics of generalized labor functions

#### Generalized labor function

Name	Qualified pharmaceutical assistance to the population, patients of medical organizations, work, services for bringing medicines, medical devices, and other goods allowed for dispensing in pharmacy organizations to the end consumer	code		Skill level	
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Possible names of positions, professions	Pharmacist Pharmacist-technologist
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Education and training requirements	Higher education – Specialist degree level Professional development at least once every five years during the entire working period
Practical work experience requirements	
Special conditions for admission to work	Certificate of accreditation of a specialist in the Specialty "Pharmacy" and (or) certificate of a specialist in the relevant specialty Passage of mandatory preliminary (when applying for a job) and periodic medical examinations (examinations), as well as extraordinary medical examinations (examinations) in the manner prescribed by the legislation of the Russian Federation No restrictions on professional activities established by the current legislation of the Russian Federation
Other characteristics	<p>Compliance with moral and ethical standards in the framework of professional activities Knowledge of legislation in the field of health care, regulatory legal acts and other documents that determine the activities of medical and pharmaceutical organizations and employees, programs of state guarantees, compulsory medical insurance, labor legislation of the Russian Federation</p> <p>Professional development of a specialist For the purpose of professional growth and assignment of qualification categories - additional professional education:</p> <ul style="list-style-type: none"> <li>- professional development programs;</li> <li>- professional retraining programs;</li> <li>- internship;</li> <li>- trainings in simulation centers;</li> <li>- use of modern distance learning technologies (educational portal and webinars);</li> <li>- participation in congresses, conferences, master classes and other educational events</li> </ul>

Additional characteristics

Title of the document	The code	Name of the base group, position (profession) or specialty
OKZ All-Russian classifier of occupations	2262	Pharmacists
EKS Unified qualification directory of profes- sionals and employees	-	Pharmacist
KPDTR All-Russian classifier of workers profes- sions, employees posts and tariff cate- gories	25850	Pharmacist
	25856	Pharmacist-technologist

### 1.3.3. Labor functions

#### 1. Labor function

Name	Wholesale, retail medicines and other pharmaceutical products	The code	A/01.7	Level (sublevel) of qualification	7
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Labor actions	<p>Pharmaceutical examination of prescriptions, requirements, verification formulation of the prescription, method of administration and safety of the medicinal product in relation to the dosage form, dosage, interaction with other drugs indicated in the prescription</p> <p>Consultations on drug groups and synonyms in within one international non-proprietary name and their prices</p> <p>Retail sale, prescription and over-the-counter medicines, with advice on use, contraindications, side effects, interactions with food and other groups of medicines and other pharmacy products</p> <p>Taxation of prescriptions and requirements</p> <p>Registration of recipes and requirements in the prescribed manner</p> <p>Control when dispensing a dosage form (compliance of the name with the prescription / requirement, dosage of narcotic drugs, psychotropic, toxic and potent substances with the age of the patient, package integrity, labeling correctness)</p> <p>Making a decision to replace the prescribed drug with synonymous or similar drugs in the prescribed manner</p> <p>Internal control over compliance with the procedure for dispensing medicines and pharmacy products</p> <p>Office work on maintaining cash, organizational and administrative, reporting documents</p> <p>Wholesale of medicines and pharmacy products assortment</p> <p>Pre-sale preparation, organization and display medicines and pharmacy products in the trading floor/showcases of departments</p> <p>Studying the demand and needs for various groups of drugs and other pharmaceutical products</p> <p>Processing applications of organizations and individual entrepreneurs, licensed for pharmaceutical activity</p> <p>Dispensing of medicines and other pharmacy products</p> <p>assortment in the divisions of medical organizations</p>
Required Skills	<p>Interpret the provisions of legislative acts and other normative legal acts regulating the circulation of medicines and pharmacy products</p> <p>Conduct pharmaceutical expertise of all forms of prescriptions/requirements for compliance with applicable regulations</p> <p>Manage prescriptions and requirements</p> <p>Accounting and dispensing of medicines and other goods pharmacy assortment in pharmacy organizations in accordance with established requirements</p> <p>Evaluate medicines and pharmacy products range in appearance, packaging, labeling</p> <p>Carry out pre-sale preparation and display of medicinal products medicines and pharmacy products in the sales area / showcases of departments in accordance with the current regulatory legal acts and storage rules</p> <p>Keep cash, organizational and administrative, reporting documents and regulatory legal acts in the field of pharmacy</p> <p>Keep a subject-quantitative accounting of medicines</p> <p>Communicate effectively verbally and in writing forms in the state language with colleagues, other employees healthcare and patients in solving professional problems</p> <p>Analyze and evaluate the results of their own activities, activities of colleagues and other employees to prevent professional errors and minimization of risks for the patient</p> <p>Independently plan and organize their production activities and effectively allocate their time</p> <p>Use computerized systems used in pharmacy organizations</p>

	<p>Use modern information and communication technologies, application programs for providing pharmaceutical activities for solving professional problems</p> <p>Accounting and dispensing of medicines and other goods</p> <p>pharmacy assortment in pharmacy organizations in accordance with established requirements</p>
Required knowledge	<p>Provisions of normative legal acts regulating circulation medicines and pharmacy products, including writing prescriptions/demands, dispensing of medicines, medical devices and their storage</p> <p>A modern range of medicines and products pharmacy assortment for various pharmacological groups, their characteristics, medical indications and method of application, contraindications, side effects, synonyms and analogues</p> <p>Requirements for the quality of medicines for labeling medicines and documents confirming the quality medicines and other pharmaceutical products</p> <p>Requirements for maintaining subject-quantitative accounting of medicines</p> <p>Requirements for the maintenance of reporting documentation in pharmaceutical organizations, professional office work</p> <p>Information and Communication Technologies and vacation computerized systems medicines and pharmaceutical products, modern methods of searching and evaluating pharmaceutical information</p> <p>Modern methods and approaches to quality assurance pharmaceutical care</p> <p>Technology of drugs and basics of biopharmacy</p> <p>Pricing rules and prices for medicines and pharmacy products</p> <p>Fundamentals of pharmaceutical management, business communication and culture, professional psychology and ethics, pharmaceutical deontology</p> <p>Merchandising in pharmacies</p> <p>Requirements for labor protection, fire safety, emergency procedures</p> <p>Sanitary and epidemiological requirements for the organization of wholesale and retail trade of medicines and pharmacy products</p> <p>Pharmaceutical Marketing</p> <p>The procedure for purchasing and receiving goods from suppliers, accounting and inventory established in the organization, including registration relevant documentation</p>
Other characteristics	<p>Compliance with moral and ethical standards within the professional activities</p> <p>Trade, distribution of medicines and other pharmacy products in separate divisions of medical organizations</p>

## 2. Labor function

Name	Carrying out acceptance control incoming medicines and other pharmacy goods to the organization	The code	A/02.7	Level (sublevel) of qualification	7
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Labor actions	<p>Carrying out acceptance control of incoming medicines and other pharmacy products and checking accompanying documents in the prescribed manner</p> <p>Withdrawal from circulation of medicines and pharmaceutical goods assortment that has become unusable, expired, falsified, counterfeit and low- quality products</p> <p>Registration of the results of acceptance control of applicants medicines and other pharmaceutical products in accordance with the established procedure</p> <p>Subject-quantitative accounting of medicines</p>
Required Skills	<p>Interpret the provisions of regulatory legal acts, regulating the circulation of medicines and pharmacy products</p> <p>Evaluate medicines by appearance, packaging, labeling, check the expiration date of medicines and other pharmacy products</p> <p>Check supporting documentation</p> <p>Interpret and evaluate the results of drug trials specified in the accompanying documentation</p>

	<p>Draw up documentation of the established form for the acceptance control of medicines, medical devices, dietary supplements and other pharmacy products for the withdrawal of products from circulation</p> <p>Keep a subject-quantitative accounting of medicines</p> <p>Communicate effectively orally and in writing with colleagues, other health care professionals and patients in addressing professional issues</p> <p>Analyze and evaluate the results of their own activities, activities of colleagues and other health workers to prevention of professional errors and minimization of risks for the patient</p> <p>Independently plan and organize their production activities and effectively allocate their time</p> <p>Use computerized systems used in pharmacy organizations</p> <p>Use modern information and communication technologies, application software pharmaceutical activities to solve professional problems</p>
Required knowledge	<p>Provisions of normative legal acts regulating the circulation of medicines and pharmacy products</p> <p>Methods of analysis used in quality control of medicines and described in the State Pharmacopoeia</p> <p>Requirements for the quality of medicines, for labeling medicines and to documents confirming the quality of medicines and other pharmacy products</p> <p>A modern range of medicines and products pharmacy assortment for various pharmacological groups, their characteristics</p> <p>Recommended ways to identify counterfeit and counterfeit medicines and other pharmacy products</p> <p>Requirements for the maintenance of reporting documentation in pharmaceutical organizations, professional office work</p> <p>Requirements for maintaining subject-quantitative accounting of medicines</p> <p>Information and Communication Technologies and computerized systems, modern methods of searching and evaluating pharmaceutical information</p> <p>Fundamentals of pharmaceutical management, business communication and culture, professional psychology and ethics, pharmaceutical deontology</p> <p>The procedure for transporting heat-labile drugs through the "cold chain" and the means used to control temperature compliance</p> <p>Modern methods and approaches to quality assurance pharmaceutical care</p> <p>The procedure for purchasing and receiving goods from suppliers established in the organization</p> <p>Requirements for labor protection, fire safety, emergency procedures</p> <p>Sanitary and epidemiological requirements for the organization of wholesale and retail trade in medicines and pharmacy products</p>
Other characteristics	<p>Compliance with moral and ethical standards in the framework of professional activities</p> <p>Conducting acceptance control in separate divisions of medical organizations can be carried out by a medical worker with additional professional education in terms of retail trade in medicines</p>

### 3. Labor function

Name	Ensuring the storage of medicines and other pharmacy products	The code	A/03.7	Level (sublevel) of qualification	7
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Labor actions	<p>Sorting of incoming medicines, other goods pharmacy assortment, taking into account their physical and chemical properties, requirements for the conditions, storage regime for special groups of medicines</p> <p>Ensuring, monitoring compliance with storage regimes and conditions, necessary to maintain the quality, effectiveness, safety of medicines and other pharmacy products, their physical safety</p>
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	<p>Seizure of medicines and other pharmacy products assortment that has become unusable, expired, falsified, counterfeit, low-quality products</p> <p>Calculation of natural loss during storage of medicines</p> <p>Maintaining subject-quantitative records of certain groups medicines</p> <p>Maintaining records</p>
Required Skills	<p>Interpret the provisions of regulatory legal acts, regulating the circulation of medicines and pharmacy products</p> <p>Sort incoming medicines, pharmacy products, taking into account their physical and chemical properties, requirements for the conditions and mode of storage of special groups of medicines, other products</p> <p>Establish modes and storage conditions necessary for maintaining the quality, efficacy and safety of medicinal means and goods of the pharmacy range and their physical safety</p> <p>Interpret the storage conditions indicated on the label medicines, in the appropriate storage regimes (temperature, storage location)</p> <p>Predict the risks of quality loss due to mode deviations storage and transportation of medicines</p> <p>Check the compliance of the storage conditions of medicines and pharmacy products with regulatory requirements</p> <p>Evaluate medicines by appearance, packaging, labeling</p> <p>Use modern information and communication technologies, application software pharmaceutical activities to solve professional problems</p> <p>Seizure medicines and other goods pharmacy assortment and draw up relevant documents</p> <p>Keep a subject-quantitative record of medicines in accordance with established requirements</p> <p>Analyze and evaluate the results of their own activities, activities of colleagues and other health workers to prevention of professional errors and minimization of risks for the patient</p> <p>Communicate effectively orally and in writing with colleagues, other health care professionals and patients in addressing professional issues</p> <p>Independently plan and organize their production activities and effectively allocate their time</p> <p>Maintain records in accordance with established requirements</p> <p>Apply attrition rates and reflect results in due course</p>
Required knowledge	<p>Provisions of normative legal acts regulating the circulation of medicines and pharmacy products</p> <p>Rules for the storage of medicines, rules for destruction falsified and counterfeit medicines, the procedure for calculating the natural loss during storage of medicines</p> <p>A modern range of medicines for various pharmacological groups, their characteristics, physicochemical and organoleptic properties, assortment of pharmacy products, storage conditions and modes</p> <p>Requirements for maintaining subject-quantitative accounting of medicines</p> <p>Fundamentals of pharmaceutical management, business communication and culture, professional psychology and ethics, pharmaceutical deontology</p> <p>Modern methods and approaches to quality assurance pharmaceutical care</p> <p>Requirements for the quality of medicines, for labeling medicines and other pharmaceutical products</p> <p>The procedure for transporting heat-labile drugs through the "cold chain" and the means used to control temperature compliance</p> <p>Information and Communication Technologies and computerized systems used in the organization of storage of medicines</p> <p>Requirements for the maintenance of reporting documentation in pharmaceutical organizations, professional office work</p> <p>The procedure for purchasing and receiving goods from suppliers established in the organization</p> <p>Recommended ways to identify counterfeit and counterfeit medicines (including the system pharmacovigilance of the Russian Federation) and pharmaceutical products assortment</p>

	Requirements for labor protection, fire safety, emergency procedures Sanitary and epidemiological requirements
Other characteristics	Compliance with moral and ethical standards in the framework of professional activities Storage in separate divisions of medical organizations can be carried out by a medical worker with additional professional education in terms of retail trade in medicines

#### 4. Labor function

Name	Informing the population and medical workers about medicines and other pharmacy products	The code	A/04.7	Level (sublevel) of qualification	7
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Labor actions	Providing advice on the rules of admission and regimen dosing of drugs, their storage at home conditions Providing advice on operating rules medical products at home Providing information and consulting assistance in choosing over-the-counter drugs and other pharmacy products Providing advice on the application and compatibility of drugs, their interaction with food Informing doctors about new modern medicines drugs, synonyms and analogues, about possible side effects of drugs, their interaction
Required Skills	Interpret the provisions of regulatory legal acts, regulating the circulation of medicines and pharmacy products Use modern information and communication technologies, application software pharmaceutical activities to solve professional problems Recognize conditions, complaints requiring medical advice Analyze and evaluate the results of their own activities, activities of colleagues and other health workers to prevention of professional errors and minimization of risks for the patient Communicate effectively orally and in writing with colleagues, other health care professionals and patients in solving professional problems Independently plan and organize their production activities and effectively allocate their time Work in a team, tolerantly perceiving social, ethnic, sectarian, and cultural differences among colleagues, other healthcare workers, patients, and consumers Resolve conflicts with colleagues and other healthcare employees, patients and consumers Carry out information and educational work to promote a healthy lifestyle, the rational use of drugs Use modern information and communication technologies, application software pharmaceutical activities to solve professional problems Provide advice on operating procedures medical products at home Study the information needs of doctors
Required knowledge	Provisions of regulatory legal acts regulating the circulation of medicines and other pharmacy products, including the pharmacovigilance system of the Russian Federation The modern range of drugs for various pharmacological groups, their characteristics, medical indications and methods of use, contraindications, side effects, synonyms and analogues and a range of pharmacy products Fundamentals of responsible self-healing Fundamentals of pharmaceutical management, business communication and culture, professional psychology and ethics, pharmaceutical deontology Modern methods and approaches to quality assurance pharmaceutical care Principles of pharmacotherapy, taking into account pharmacokinetics and pharmacodynamics of drugs Fundamentals of Clinical Pharmacology

	Information and Communication Technologies and computerized systems, modern methods of searching and evaluating pharmaceutical information Rules for the rational use and dispensing of medicinal drugs Basics of merchandising in pharmacy organizations
Other characteristics	Compliance with moral and ethical standards in the framework of professional activities

## 5. Labor function

Name	Manufacture of medicines in conditions of pharmacy organizations	The code	A/05.7	Level (sublevel) of qualification	7
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Labor actions	Preparation for the manufacture of medicines according to prescriptions and requirements: performing the necessary calculations; preparation of the workplace, equipment and medicines, selection and preparation of excipients, rational packaging Selection of the optimal technological process and preparation the necessary technological equipment for the manufacture medicines Manufacture of medicinal products in accordance with the rules of manufacture and taking into account all stages of the technological process, quality control at the stages of the technological process Implementation of packaging and labeling / registration of manufactured medicinal products Maintaining registration of data on the manufacture of medicinal products (filling out a written control passport; in the case of use in the manufacture of medicinal products that are on the subject-quantitative account, registration of the reverse side of the prescription) Maintaining subject-quantitative records of certain groups medicines and other substances subject to such accounting
Required Skills	Interpret the provisions of regulatory legal acts, regulating the circulation of medicines and pharmacy products Prepare all kinds of dosage forms Register data on manufactured medicinal products Packaging and labeling of manufactured medicinal products Analyze and evaluate the results of their own activities, activities of colleagues and other health workers to prevention of professional errors and minimization of risks for the patient Communicate effectively orally and in writing with colleagues, other health care professionals and patients in addressing professional issues Independently plan and organize their production activities and effectively allocate their time Carry out subject-quantitative accounting of medicines and other substances in accordance with the legislation of the Russian Federation Interpret and evaluate the results of in-pharmacy drug quality control Use laboratory and technological equipment Use modern information and communication technologies, application software pharmaceutical activities to solve professional problems Apply personal protective equipment
Required knowledge	Provisions of normative legal acts regulating the circulation of medicines and pharmacy products Methods of analysis used in quality control of medicines and described in the State Pharmacopoeia Requirements for the quality of medicines, for labeling medicines and to documents confirming the quality of medicines and other pharmacy products

	A modern range of medicines and products pharmacy assortment for various pharmacological groups, their characteristics Recommended ways to identify counterfeit and counterfeit medicines and other pharmacy products Requirements for the maintenance of reporting documentation in pharmaceutical organizations, professional office work Requirements for maintaining subject-quantitative accounting of medicines Information and Communication Technologies and computerized systems, modern methods of searching and evaluating pharmaceutical information Fundamentals of pharmaceutical management, business communication and culture, professional psychology and ethics, pharmaceutical deontology The procedure for transporting heat-labile drugs through the "cold chain" and the means used to control temperature compliance Modern methods and approaches to quality assurance pharmaceutical care The procedure for purchasing and receiving goods from suppliers established in the organization Requirements for labor protection, fire safety, emergency procedures Normative legal acts on the manufacture of dosage forms and intra-pharmacy control Rules for the manufacture of solid, liquid, soft, sterile and aseptic dosage forms Physicochemical and organoleptic properties of medicinal means, their physical, chemical and pharmacological compatibility Fundamentals of microbiology Fundamentals of biopharmacy Nomenclature of modern medicinal substances and excipients, their properties, purpose Sanitary and epidemiological requirements Rules for the use of personal protective equipment
Other characteristics	Compliance with moral and ethical standards in the framework of professional activities

#### 1.4. Learning conditions for students with disabilities

The Federal State Budgetary Educational Institution of Higher Education BSMU of the Ministry of Healthcare of the Russian Federation provides conditions for the training of disabled students in the Republic of Bashkortostan.

The university has developed local regulations:

- " Regulations on the organization of the educational process for persons with disabilities at the Federal State Budgetary Educational Institution of Higher Education BSMU of the Ministry of Healthcare of Russia";
- " Regulations on the current monitoring of progress and intermediate certification of students at the FSBEI HE BSMU of the Ministry of Healthcare of Russia", including for persons with disabilities";
- " Regulations on the state final certification for educational programmes of higher education - bachelor's programmes, specialist programmes at the Federal State Budgetary Educational Institution of Higher Education BSMU of the Ministry of Healthcare of Russia ", including for persons with disabilities.

The system of education for disabled students in case of their admission to a university can be mixed, in general groups or according to an individual curriculum.

Psychological and pedagogical support of inclusive education of people with disabilities in the case of their study at our university involves: monitoring the schedule of the educational process and the implementation of certification activities, providing educational and methodological materials in accessible forms, organizing individual consultations for students with disabilities, individual curricula and individual training schedules, scheduling classes taking into account the availability of the environment.

Social support for inclusive education of disabled people includes involvement in student government, the organization of leisure, summer recreation, the organization of a volunteer movement to help students with disabilities.

The university will provide conditions for the preservation of health and medical support for disabled people, such as: adaptation of the discipline "Physical culture and sports" for disabled people, a sanatorium.

The university organizes the educational process for people with disabilities and people with disabilities using distance learning technologies. This is a combination of on-line and off-line technologies in the educational process, reception and transmission of educational information in accessible forms, a combination of individual and collective forms of work in the educational process.

The university has created conditions for students with disabilities and students with disabilities to receive education. There is an accessible environment sufficient to ensure the possibility of unimpeded access for students and employees with disabilities to the academic building.

Students with disabilities, like all other students, can study according to the general curriculum. If necessary, taking into account the characteristics and educational needs of specific students, individual curricula are developed. For each discipline of the curriculum of educational programmes, educational and methodological materials have been developed, including methodological recommendations for the independent study of courses. On the basis of an individualized approach, internship is organized for students with disabilities.

For mastering the discipline "Physical culture and sport" the university establishes a special order. Students with disabilities are offered tasks and a special set of exercises for physical training. For students with disabilities, classes are conducted with accessible physical activity, taking into account the characteristics of each student.

The university has a scientific library, which has created special conditions for persons with disabilities. In the Library reception (room 117), on the basis of orders for students, upon presentation of an identity document, in person, or through their representative under a power of attorney issued by the reader, persons with disabilities can use:

- subscription of educational literature (building 7, room 124)
- subscription of scientific literature (building 7, room 117)
- information hall (building 7, room 126).
- provision of a specially equipped space for work in the following library rooms: coworking center (building 7, room 122), reading room of periodicals (building 7, room 122a), reading room of educational literature of free access (building 7, room 114), information hall (building 7, room 126).

The university has created special conditions to ensure the accessibility of receiving education for students with visual disabilities:

- availability of an alternative version of the official website of the organization on the Internet for the visually impaired;
- ensuring the release of alternative formats of printed materials (large print or audio files);
- ensuring access of a student who is blind and uses a guide dog to the building of the organization;
- placement in places accessible to students who are blind or visually impaired and in an adapted form (considering their special needs) reference information on the schedule of training sessions (information should be made in large relief-contrasting font).

A specialized parking lot for vehicles of persons with disabilities has been prepared in the amount of two parking spaces in accordance with state technical standard GOST P 52289 and GOST 12.4.026. An alarm and warning system for persons with disabilities is equipped, which helps to ensure the safety of students in accordance with SNiP (Construction Rules and Regulations) 21-01 and GOST 12.1.004. Information plates on the availability of situational assistance to persons with disabilities, made in accordance with the requirements of SES R 52875, were posted. A regulation on situational assistance to persons with disabilities in the university was developed on the basis of the disability category codifier. The entrance to the main educational building was reequipped in accordance with the requirements for the accessibility of the environment for people with limited mobility SNiP 35.01.2001, SP (set of rules) 42.13330, GOST P 51261, GOST P 52875. Reconstruction of toilets on the first floor was carried out in accordance with the requirements for sanitary rooms for people with limited mobility.

A structural unit "Service for students with disabilities" was organized, which is responsible for organizing the education of disabled people and people with disabilities at the university.

Together with the heads of structural units, an examination of educational buildings and dormitories of the BSMU was carried out for compliance with accessibility to low-mobility groups of the population. A



list of additional equipment of premises has been compiled in order to provide maximum mobility for students and teachers with disabilities.

## 2. EXPECTED RESULTS OF MASTERING THE EDUCATIONAL PROGRAMME (COMPETENCIES)

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

As a result of mastering EPHE, the graduate should have the following competencies:

### 2.1. Universal competencies of graduates and indicators of their achievement

Table 2.1

Category (group) of universal competencies	Code and name of the universal competence	Code and name of the indicator of achievement of universal competence
Systemic and critical thinking	UC-1. Able to carry out a critical analysis of problem situations based on a systemic approach, develop an action strategy	UC-1.1. Analyzes the problem situation as a system, identifying its components and relationships between them
		UC-1.2. Identifies gaps in information needed to solve a problem situation and design processes to address them
		UC-1.3. Critically evaluates the reliability of information sources, work with conflicting information from different sources
		UC-1.4. Develops and substantively argues a strategy for solving a problem situation based on systemic and interdisciplinary approaches
		UC-1.5. Applies logical and methodological tools for a Critical assessment of modern concepts of a philosophical and social nature in his subject area
Development and implementation of projects	UC-2. Able to manage a project at all stages of its life cycle	UC-2.1. Based on the problem posed, formulates a project task and a way to solve it through the implementation of project management
		UC-2.2. Develops the concept of the project within the framework of the identified problem: formulates the goal, objectives, justifies the relevance, significance, expected results and possible areas of their application
		UC-2.3. Plans the necessary resources, including taking into account their replaceability
		UC-2.4. Develops a project implementation plan using planning tool
		UC-2.5. Monitors the progress of the project, corrects deviations, makes additional changes to the project implementation plan, clarify the areas of responsibility of the project participants
Teamwork and Leadership	UC-3. Able to organize and manage the work of the team, developing a team strategy to achieve the goal	UC-3.1. Develops a cooperation strategy and, on its basis, organizes the selection of team members to achieve the goal, distributing roles in the team
		UC-3.2. Plans and adjusts the work of the team, taking into account the interests, characteristics of behavior and opinions of its members; distributes tasks and delegates authority to team members
		UC-3.3. Resolves conflicts and contradictions in business communication based on the interests of all parties
		UC-3.4. Organizes discussions on a given topic and discussion of the results of the team's work with the involvement of opponents of the developed ideas
Communication	UC-4. Able to apply modern communication technologies, including in a foreign language(s), for academic and professional interaction	UC-4.1. Establishes and develops professional contacts in accordance with the needs of joint activities, including the exchange of information and the development of a unified interaction strategy
		UC-4.2. Complies, translates from a foreign language into the state language of the Russian Federation and from the state language of the Russian Federation into a foreign language, and also edit various academic texts (abstracts, essays, reviews, articles, etc.), including those in a foreign language
		UC-4.3. Presents the results of academic and professional activities at various public events, including international ones, choosing the most appropriate format

Category (group) of universal competencies	Code and name of the universal competence	Code and name of the indicator of achievement of universal competence
		UC-4.4. Argumentatively and constructively defends his positions and ideas in academic and professional discussions in the state language of the Russian Federation and a foreign language
		UC-4.5. Chooses the style of communication in the state language of the Russian Federation and a foreign language, depending on the purpose and conditions of the partnership; adapts speech, communication style and body language to interaction situations
Intercultural interaction	UC-5. Able to analyze and take into account the diversity of cultures in the process of intercultural interaction	UC-5.1. Interprets the history of Russia in the context of world historical development
		UC-5.2. Analyzes the most important ideological and value systems formed in the course of historical development; substantiates the relevance of their use in social and professional interaction
		UC-5.3. Builds social professional interaction, taking into account the characteristics of the main forms of scientific and religious consciousness, business and general culture of representatives of other ethnic groups and confessions, various social groups
		UC-5.4. Ensures the creation of a non-discriminatory environment for interaction when performing professional tasks
Self-organization and self-development (including health protection)	UC-6. Able to determine and implement the priorities of one's own activity and ways to improve it on the basis of self-esteem and lifelong education	UC-6.1. Evaluates his resources and their limits (personal, situational, temporary), applies them optimally for the successful completion of the assigned task
		UC-6.2. Determines priorities for professional growth and ways to improve one's own activities based on self-assessment according to selected criteria
		UC-6.3. Builds a flexible professional trajectory using lifelong learning tools, taking into account the accumulated experience of professional activity and the dynamically changing requirements of the labor market
	UC-7. Able to maintain the proper level of physical fitness to ensure full-fledged social and professional activities	UC-7.1. Selects health-saving technologies to maintain a healthy lifestyle, taking into account the physiological characteristics of the body
		UC-7.2. Plans his working and free time for the optimal combination of physical and mental stress and ensuring performance
Life safety	UC-8. Able to create and maintain safe living conditions in everyday life and in professional activities to preserve the natural environment, ensure the sustainable development of society, including in the event of a threat and the occurrence of emergencies situations and military conflicts	UC-7.3. Observes and promotes the norms of a healthy lifestyle in various life situations and in professional activities
		UC-8.1. Analyzes the factors of harmful influence on the life of the elements of the environment (technical means, technological processes, materials, buildings and structures, natural and social phenomena)
		UC-8.2. Identifies hazardous and harmful factors within the framework of the activities carried out
		UC-8.3. Solves problems related to safety violations and participates in measures to prevent emergencies in the workplace
Economic culture, including financial literacy	UC-9. Able to make informed economic decisions in various areas of life	UC-8.4. Observes and explains the rules of conduct in case of emergencies of natural and man-made origin, provides first aid
		UC-9.1. Understands the basic principles of the functioning of the economy and economic development, the goals of the form of state participation in the economy
Civil position	UC-10. Able to form an intolerant attitude towards corrupt behavior	UC-9.2. Applies methods of personal economic and financial planning to achieve current and long-term financial goals, use financial instruments to manage personal finances (personal budget), controls own economic and financial risks
		UC-10.1. Analyzes the current legal norms that ensure the fight against corruption in various areas of life, as well as ways to prevent corruption and form an intolerant attitude towards it
		UC-10.2. Plans, organizes and conducts activities that ensure the formation of a civil position and the prevention of corruption in society
		UC-10.3. Complies with the rules of social interaction based on an intolerant attitude towards corruption

## 2.2. General professional competencies of graduates and indicators of their achievement

Table 2.2

Category (group) of general professional competencies	Code and name of general professional competence	Labor function index and its content	Code and name of the indicator of achievement of general professional competence
Professional methodology	GPC-1. Able to use basic biological, physical and-chemical, mathematical methods for the development, research and examination of drugs, the manufacture of drugs	A/02.7 Carrying out acceptance control of medicines and other pharmaceutical products entering the organization	GPC-1.1. Applies basic biological methods of analysis for the development, research and examination of medicines and medicinal plant materials
		A/03.7 Ensuring the storage of medicines and other pharmaceutical products assortment	GPC-1.2. Applies basic physical and chemical methods of analysis for the development, research and examination of medicines and medicinal plant raw materials
		A/05.7 Manufacture of medicinal products drugs in the conditions of pharmacy organizations	GPC-1.3. Applies the main methods of physical and chemical analysis in the manufacture of medicines
			GPC-1.4. Applies mathematical methods and performs mathematical processing of data obtained during the development of medicines, as well as research and examination of medicines and medicinal plant materials
	GPC-2. Able to apply knowledge about morpho-functional features, physiological conditions and pathological processes in the human body to solve professional problems	A/01.7 Wholesale, retail trade, dispensing of medicines and other pharmacy products A/02.7 Carrying out acceptance control of medicines and other pharmaceutical products entering the organization A/03.7 Ensuring the storage of medicines and other pharmaceutical products assortment A/04.7 Public awareness and medical workers medicinal preparations and other pharmaceutical products A/05.7 Manufacture of medicinal products drugs in the conditions of pharmacy organizations	GPC-2.1. Analyzes the pharmacokinetics and pharmacodynamics of the drug based on knowledge of the morphological and functional features, physiological conditions and pathological processes in the human body
			GPC-2.2. Explains the main and side effects of drugs, the effects of their combined use and interaction with food, taking into account morphological and functional characteristics, physiological conditions and pathological processes in the human body
Adaptation to production conditions	GPC-3. Able to carry out professional activities, taking into account specific economic, environmental, social factors within the framework of the system of legal regulation of the sphere of circulation of medicines	A/01.7 Wholesale, retail trade, dispensing of medicines and other pharmacy products A/02.7 Carrying out acceptance control of medicines and other pharmaceutical products entering the organization	GPC-2.3. Takes into account morpho-functional features, physiological conditions and pathological processes in the human body when choosing over-the-counter drugs and other pharmacy products
			GPC-3.1. Complies with the norms and rules established by the authorized state authorities when solving problems of professional activity in the field of circulation of medicines GPC-3.2. Takes into account, when making management deci-

Category (group) of general professional competencies	Code and name of general professional competence	Labor function index and its content	Code and name of the indicator of achievement of general professional competence
		A/03.7 Ensuring the storage of medicines and other pharmaceutical products assortment A/04.7 Public awareness and medical workers medicinal preparations and other pharmaceutical products A/05.7 Manufacture of medicinal products drugs in the conditions of pharmacy organizations	sions, economic and social factors that affect the financial and economic activities of pharmaceutical organizations GPC-3.3. Performs labor actions taking into account their impact on the environment, preventing the occurrence of environmental hazards
Ethics and deontology	GPC-4. Able to carry out professional activities in accordance with ethical standards and moral principles of pharmaceutical ethics and deontology	A/01.7 Wholesale, retail trade, dispensing of medicinal preparations and other pharmacy products A/03.7 Ensuring the storage of medicines and other pharmaceutical products assortment A/04.7 Public awareness and medical workers medicinal preparations and other pharmaceutical products	GPC-4.1. Carries out interaction in the system "pharmaceutical worker-visitor of a pharmacy organization" in accordance with the norms of pharmaceutical ethics and deontology GPC-4.2. Carries out interaction in the system "pharmaceutical worker-health worker" in accordance with the norms of pharmaceutical ethics and deontology
First aid	GPC-5. Able to provide first aid on the territory of a pharmaceutical organization in case of emergency conditions for visitors before the arrival of an ambulance team	A/03.7 Ensuring the storage of medicines and other pharmaceutical products assortment A/04.7 Public awareness and medical workers medicinal preparations and other pharmaceutical products	GPC-5.1. Establishes the fact of the occurrence of an emergency condition for a visitor to a pharmacy organization, in which first aid is necessary GPC-5.2. Conducts first aid activities for visitors in case of emergency before the arrival of the ambulance team
Use of information technology	GPC-6. Able to understand the principles of operation of modern information technologies and use them to solve the problems of professional activity	A/01.7 Wholesale, retail trade, dispensing of medicinal preparations and other pharmacy products A/02.7 Carrying out acceptance control of medicines and other pharmacy products entering the organization A/03.7 Ensuring the storage of medicines and other pharmaceutical products assortment A/04.7 Public awareness and medical workers medicinal preparations and other pharmaceutical products A/05.7 Manufacture of medicinal products drugs in the conditions of pharmacy organizations	GPC-6.1. Applies modern information technologies when interacting with the subjects of circulation of medicines, taking into account the requirements of information security GPC-6.2. Carries out an effective search for information necessary to solve the problems of professional activity, using legal reference systems and professional pharmaceutical databases GPC-6.3. Applies specialized software for mathematical processing of observational and experimental data in solving problems of professional activity GPC-6.4. Uses automated information systems in the internal processes of a pharmaceutical organization, as well as for interactions with customers and suppliers

## 2.3. Mandatory professional competencies of graduates and indicators of their achievement

Table 2.3

Task of professional activity	Object	Code and name of professional competence	Labor function index and its content	Code and name of the indicator of achievement of professional competence	Base (Occupational standard (OS), experience analysis)
Type of tasks of professional activity: pharmaceutical					
Organization and implementation of the process of manufacturing medicinal preparations	Medicines for medical use	PC-1. Capable of manufacturing medicines for medical use	A/05.7 Manufacturing of medicinal drugs in the conditions of pharmacy organizations	PC-1.1. Carries out activities to prepare the workplace, technological equipment, medicinal and excipients for the manufacture of medicinal products in accordance with recipes and (or) requirements	02.006 Pharmacist
				PC-1.2. Produces medicinal products in accordance with established rules and taking into account the compatibility of medicinal and excipients, controlling the quality at all stages of the technological process	
				PC-1.3. Packs, labels and (or) issues manufactured medicinal products for dispensing	
				PC-1.4. Registers data on the manufacture of medicinal preparations in the prescribed manner, including keeping a subject-quantitative record of groups of medicinal products and other substances subject to such accounting	
Dispensing, sale and transfer of medicinal preparations and other pharmacy products through pharmaceutical and medical organizations	Medicines for medical use and other pharmacy products	PC-2. Able to solve the tasks of professional activities in the implementation of the dispensing and sale of drugs and other pharmacy products through pharmaceutical and medical organizations	A/01.7 Wholesale, retail trade, dispensing of medicinal preparations and other pharmacy assortment goods  A/02.7 Carrying out acceptance control of medicines and other pharmaceutical products incoming to the organization  A/03.7 Provision of storage of medicines and other pharmaceutical products assortment	PC-2.1. Conducts pharmaceutical examination of prescriptions and invoice requirements, as well as their registration and taxation in accordance with the established procedure	02.006 Pharmacist  Federal Law of April 12, 2010 № 61-ФЗ "On the Circulation of Medicines"  Order of the Ministry of Health of Russia dated December 20, 2012 № 1175n "On approval of the procedure for prescribing and prescribing medicinal products, as well as forms of prescription forms for medicinal preparations, the procedure for issuing specified forms, their accounting and storage "
				PC-2.2. Sells and dispenses medicines for medical use and other pharmacy products to individuals, and also dispenses them to divisions of medical organizations, controlling compliance with the procedure for dispensing medicines for medical use and other pharmaceutical products	
				PC-2.3. Carries out business-management for maintaining cash, organizational and administrative, reporting documents for retail sales	
				PC-2.4. Carries out business-management, organizational-	

Task of professional activity	Object	Code and name of professional competence	Labor function index and its content	Code and name of the indicator of achievement of professional competence	Base (Occupational standard (OS), experience analysis)
				administrative, payment reporting documents for retail sales PC-2.5. Carries out pre-sale preparation, organizes and carries out the display of medicinal preparations and pharmacy assortment goods in the sales area and (or) showcases of the pharmacy organization departments	
	Individuals	PC-3. Able to carry out pharmaceutical informing and consulting during the dispensing and sale of medicinal products for medical use and other pharmacy products	A/01.7 Wholesale, retail trade, dispensing of medicinal preparations and other pharmacy assortment goods A/02.7 Carrying out acceptance control of medicines and other pharmaceutical products incoming to the organization A/03.7 Provision of storage of medicines and other pharmaceutical products assortment A/04.7 Public awareness and medical workers about medicines and other pharmaceutical products A/05.7 Manufacture of medicinal products drugs in the conditions of pharmacy organizations	PC-3.1. Provides information and consulting assistance to visitors of the pharmacy organization when choosing medicines and other pharmacy products, as well as on issues of their rational use PC-3.2. Informs medical workers about drugs, their synonyms and analogues, possible side effects and interactions PC-3.3. Makes a decision to replace the prescribed drug with synonymous or similar drugs in the prescribed manner based on information about groups of drugs and synonyms within one international generic name and prices for them	02.006 Pharmacist 02.006 Pharmacist 02.006 Pharmacist
Type of tasks of professional activity: expert-analytical					
Monitoring the quality, efficacy and safety of medicines	Medicinal products for medical use and medicinal plant raw materials	PC-4. Able to participate in monitoring the quality, efficacy and safety of medicines and medicinal plant raw materials	A/02.7 Carrying out acceptance control of medicines and other pharmaceutical products entering the organization A/03.7 Provision of storage of medicines and other pharmaceutical products assortment A/04.7 Public awareness and medical workers about	PC-4.1. Conducts pharmaceutical analysis of pharmaceutical substances, excipients and medicinal preparations for medical use of factory production in accordance with quality standards PC-4.2 Performs intra-apical quality control of medicines for medical use manufactured in an apical organization	02.015 Pharmacist-analyst 02.010 Specialist in industrial pharmacy in the field of drug research 02.013 Specialist in industrial pharmacy in the field of quality control of medicines 02.015 Pharmacist-analyst Order of the Ministry of Health of the Russian Federation

Task of professional activity	Object	Code and name of professional competence	Labor function index and its content	Code and name of the indicator of achievement of professional competence	Base (Occupational standard (OS), experience analysis)
			medicines and other pharmaceutical products  A/05.7 Manufacture of medicinal products drugs in the conditions of pharmacy organizations		dated October 26, 2015№751n «On the approval of the rules for the manufacture and release of medicinal products for medical use by pharmacy organizations, individual pre-acceptors who have a license for pharmaceutical activity»
				PC-4.3. Conducts pharmacognosy analysis of medicinal plant materials and medicinal plant preparations	
				PC-4.4. Informs, in accordance with the procedure established by the legislation, about the non-compliance of the medicinal preparation for medical use with the established requirements or about the non-compliance of the data on the effectiveness and safety of the medicinal preparation with the data on the medicinal preparation contained in the instructions for its use	Federal Law of April 12 , 2010 № 61 «About the treatment of medicinal products" Article 64. Pharmacovigilance 02.010 Specialist in industrial pharmacy in the field of drug research
		Type of tasks of professional activity: organizational and managerial			
Planning and organization of resource provision of pharmaceutical organizations, including the organization and implementation of trade and procurement activity	Medicines for medical use and other products of the pharmacy range	PC-5. Able to take part in planning and organizing the resource provision of a pharmaceutical organization	A/01.7 Wholesale, retail trade, distribution of medicines and other pharmacy products	PC-5.1. Determines the economic indicators of inventories of medicines and other pharmacy assortment goods	02.012 Specialist in the field of pharmaceutical management
			A/02.7 Carrying out acceptance control of medicines and other pharmacy assortment goods entering the organization	PC-5.2. Selects the optimal suppliers and organizes the procurement process based on the results of market research of suppliers of medicinal products for medical use and other pharmacy products	02.012 Specialist in the field of pharmaceutical management
			A/03.7 Provision of storage of medicinal products medicines and other products of the pharmacy range	PC-5.3. Controls the execution of contracts for the supply of medicines for medical use and other pharmacy products	02.012 Specialist in the field of pharmaceutical management
			A/04.7 Informing the population and medical workers about medicines and other pharmacy products A/05.7 Manufacture	PC-5.4. Conducts acceptance control of incoming medicines and other pharmacy products, checking and issuing accompanying documents in the prescribed manner	02.006 Pharmacist

Task of professional activity	Object	Code and name of professional competence	Labor function index and its content	Code and name of the indicator of achievement of professional competence	Base (Occupational standard (OS), experience analysis)
			of medicines in the conditions of pharmacy organizations	PC-5.5. Carries out the withdrawal from circulation of medicines and pharmacy assortment goods that have become unusable, expired, falsified, counterfeit and sub-standard products	02.012 Specialist in the field of pharmaceutical management
				PC-5.6. Performs subject-quantitative accounting of medicines in accordance with the established procedure	02.006 Pharmacist
				PC-5.7. Organizes control over the availability and storage conditions of medicines for medical use and other pharmacy products	02.006 Pharmacist
Organization of the supply of medicines and medical products in the provision of assistance to the population in emergency situations at the stages of medical evacuation	Medicinal products for medical use and medical devices	PC-6. Able to organize the supply of medicines and medical products when providing assistance to the population in emergency situations at the stages of medical evacuation	A/02.7 Conducting acceptance control of medicines and other pharmacy assortment products entering the organization A/03.7 Provision of storage of medicines and other pharmacy products	PC-6.1. Conducts operations on accounting, decommissioning and preparation of documents for the supply of medical equipment, including complete medical equipment	
				PC-6.2. Deploys and organizes the work of pharmacies of formations and medical institutions in the field when providing assistance to the population in emergency situations at the stages of medical evacuation	
		Type of tasks of professional activity: production			
Production of medicines	Medicinal products for medical use	PC-7. Able to carry out operations related to the technological process in the production of medicines, and their control	A/05.7 Manufacture of medicines in the conditions of pharmacy organizations	PC-7.1. Ensures the level of proper production in accordance with the applicable rules and regulations	02.016 Specialist in industrial pharmacy in the field of drug production
				PC-7.2. Participates in all technological operations carried out in the production of medicines at pharmaceutical enterprises	
				PC-7.3. Monitors compliance with the requirements of the technological regulations of production in order to comply with the norms of the technological process	
				PC-7.4. Monitors compliance of the equipment and control and measuring equipment used in production with the requirements of technological documentation	
				PC-7.5. Monitors the compliance of the raw materials	



Task of professional activity	Object	Code and name of professional competence	Labor function index and its content	Code and name of the indicator of achievement of professional competence	Base (Occupational standard (OS), experience analysis)
				and auxiliary materials used with the requirements	
Type of tasks of professional activity: pharmaceutical					
Implementation of pharmaceutical activity-news in the field of circulation of medicines for veterinary use	Medicinal products for veterinary use	PC-8. Able to solve the tasks of professional activity within the framework of pharmaceutical activity in the field of circulation of medicinal products for veterinary use	A/01.7 Wholesale, retail trade, distribution of medicines and other pharmacy products  A/05.7 Manufacture of medicines in the conditions of pharmacy organizations	PC-8.1. Participates in the selection of optimal suppliers and procurement processes, taking into account previously conducted market research of medicinal products for veterinary use	Federal Law of April 12 , 2010 № 61-«About the circulation of medicines» Resolution of the Government of the Russian Federation of December 22, 2011 № 1081 « About licensing of pharmaceutical activity »
				PC-8.2. Sells and releases medicinal products for veterinary use to individuals, as well as veterinary clinics, observing the appropriate period of leave	
Release, sale and transfer of medicines and other pharmacy products through pharmaceutical and medical organizations	Medicinal products for medical use	PC-9. Able to solve the tasks of professional activity in the transfer of medicines through pharmaceutical and medical organizations	A/01.7 Wholesale, retail trade, distribution of medicines and other pharmacy products  A/02.7 Carrying out acceptance control of medicines and other pharmacy assortment goods entering the organization  A/03.7 Provision of storage of medicines and other pharmacy products  A/04.7 Informing the population and medical workers about medicines and other pharmacy products	PC-9.1. Sells and releases medicines for medical use through pharmaceutical and medical organizations, observing the required procedure for release and transfer  PC-9.2. Performs pharmaceutical information and consulting during the sale, release and transfer of medicinal preparations for medical use  PC-9.3. Conducts pharmaceutical examination of documents, as well as their registration and taxicab in the prescribed manner during the release, implementation and transfer of medicinal products for medical use through pharmaceutical and medical organizations	Federal Law of April 12, 2010 № 61-«About the circulation of medicines» Order of the Ministry of Health and Social Development of the Russian Federation dated July 29 , 2010 № 574n «On approval of the Regulations on the Procedure for Providing Citizens of the Russian Federation with Medicines and Personal Protective Equipment from the Federal Reserve Stock»
Type of tasks of professional activity: research					
preclinical studies	medicines, biological fluids	PC-10. Able to conduct research to evaluate the effectiveness and safety of medicines	A/02.7 Carrying out acceptance control of medicines and other pharmacy assortment goods entering the organization  A/03.7 Provision of storage of medicines and other pharmacy products	PC-10.1. Performs a set of studies (within the preclinical study) to assess the effectiveness and safety of medicinal products, using the necessary in vitro and in vivo techniques  PC-10.2. Determines the physical and chemical parameters of medicines and	02.010 Specialist in industrial pharmacy in the field of drug research

Task of professional activity	Object	Code and name of professional competence	Labor function index and its content	Code and name of the indicator of achievement of professional competence	Base (Occupational standard (OS), experience analysis)
			<p>A/04.7 Informing the population and medical workers about medicines and other pharmacy products</p> <p>A/05.7 Manufacture of medicines in the conditions of pharmacy organizations</p>	<p>biopharmaceutical indicators in order to substantiate and determine the optimal composition of the medicinal product under study</p> <p>PC-10.3. Conducts pharmacokinetic studies on the selection of the optimal dosage form and establishes basic quality standards for it and determines the terms and conditions of storage</p> <p>PC-10.4. Compiles the relevant accounting documents and forms the primary versions of the</p> <p>PC-10.5. Conduct general pharmacological studies in relation to the identification of the specific activity and toxic properties of the studied medicinal product</p>	
Type of tasks of professional activity: control and permitting					
Control (supervision) over the implementation of pharmaceutical activity-news	Pharmaceutical activity	PC-11. Capable of carrying out measures to control (supervise) the activities of legal entities and individuals who have a license for pharmaceutical activity, in compliance with mandatory requirements	<p>A/01.7 Wholesale, retail trade, distribution of medicines and other pharmacy products</p> <p>A/02.7 Carrying out acceptance control of medicines and other pharmacy assortment goods entering the organization</p> <p>A/03.7 Provision of storage of medicines and other pharmacy products</p>	<p>PC-11.1. Supervises the activities of legal entities and individuals who have licenses for pharmaceutical activity</p> <p>PC-11.2. Monitors the order established by the legislation regarding the compliance of available medicinal preparations for medical use, instructions and data on its safety and effectiveness</p>	the project of the professional standard "Pharmaceutical inspector"
Ensuring the quality of medicines in industrial production	Medicinal products for medical use	PC-12. Able to take part in measures to ensure the quality of medicines in industrial production	A/05.7 Manufacture of medicines in the conditions of pharmacy organizations	<p>PC-12.1. Participates in events, including the preparation and verification of documents responsible for the quality of medicines</p> <p>PC-12.2. Provides a clear implementation and execution of the technological scheme in production, taking into account the verification of the quality indicators of the received drug, including the technological stages</p> <p>PC-12.3. Ensures the reliability and effectiveness of all types of quality control of</p>	<p>Federal Law of April 12, 2010 № 61-«About the circulation of medicines»</p> <p>Decree of the Government of the Russian Federation №686 «On approval of the regulations on licensing the production of medicines»</p> <p>Order of the Ministry of Health of</p>

Task of professional activity	Object	Code and name of professional competence	Labor function index and its content	Code and name of the indicator of achievement of professional competence	Base (Occupational standard (OS), experience analysis)
				the received medicinal product, primarily ensuring in-plant control, as well as participation in state and arbitration control	the Russian Federation dated November 1, 2013 № 811n « On approval of the procedure for certification of an authorized person of a manufacturer of medicines for medical use» 02.014 Specialist in industrial pharmacy in the field of quality assurance of medicines
Type of tasks of professional activity: production					
Monitoring of validated pharmaceutical manufacturing processes	Technological processes	PC-13. Able to take part in work on the validation of technological processes of pharmaceutical production	A/05.7 Manufacturing of medicinal drugs in the conditions of pharmacy organizations	PC-13.1. Participates in ensuring proper production and quality control at all stages of drug production PC-13.2. Performs validation of all stages of production that may affect the quality of manufactured medicines PC-13.3. Ensures the registration of all stages of production and monitor compliance with the quality of the medicinal product with the requirements established and reflected in the regulations PC-13.4. Follows the procedure for the return of low-quality product series, followed by a detailed analysis of the reasons for the violation of its quality	02.011 Pharmaceutical production validator (qualification)
Type of tasks of professional activity: expert-analytical					
Conducting chemical-toxicological and forensic-chemical studies	Biologically active substances, biological fluids and tissues	PC-14. Able to take part in the conduct of chemical-toxicological and forensic-chemical research in order to diagnose poisoning, drug and alcohol intoxication	PC-14.1. Participates in chemical-toxicological research PC-14.2. Conducts forensic chemical research to detect poisoning, drug and alcohol intoxication PC-14.3. Participates in monitoring the quality of the safety of medicines and medicinal plant materials	Draft professional standards "Specialist in the field of chemical and toxicological research" and "Specialist in the field of forensic chemical examinations"	

## 2.4. Matrix of competencies and a table of the level of their development in accordance with tl

Universal competencies												
Name of disciplines (modules) in accordance with the curriculum		Code and content of competence										
		UC-1.					UC-2.			UC-3.		
		Competence achievement indicators										
Section 1	Disciplines (modules)	UC-1.1	UC-1.2	UC-1.3	UC-1.4	UC-1.5	UC-2.1	UC-2.2	UC-2.3	UC-3.1	UC-3.2	UC-3.3
	Mandatory part											
S1.C.01	History (history of Russia, general history)											
S1.C.02	Foreign language (Russian language)											
S1.C.03	Latin language											
S1.C.04	History of Pharmacy	+	+	+	+	+						
S1.C.05	General and inorganic chemistry											
S1.C.06	Botany	+										
S1.C.07	Biology	+	+	+								
S1.C.08	Physiology with the basics of anatomy	+										
S1.C.09	Mathematics					+						
S1.C.10	Physics					+						
S1.C.11	Physical and colloidal chemistry	+										
S1.C.12	Microbiology	+										
S1.C.13	Philosophy					+						
S1.C.14	Analytical chemistry	+										
S1.C.15	Organic chemistry											
S1.C.16	First aid											
S1.C.17	Life safety											
S1.C.18	Pathology						+	+				
S1.C.19	Biological chemistry	+	+	+	+							
S1.C.20	Bioethics											
S1.C.21	Law science											
S1.C.22	General hygiene											
S1.C.23	Psychology and pedagogy	+	+	+						+	+	+
S1.C.24	Pharmacology	+		+		+						
S1.C.25	Pharmaceutical technology	+			+							
S1.C.26	Pharmacognosy			+								
S1.C.27	Pharmaceutical chemistry											
S1.C.28	Toxicological chemistry											
S1.C.29	Medical and pharmaceutical commodity science											

S1.C.30	Pharmacy Management and Economics									+	+	+
S1.C.31	Clinical pharmacology (pharmacotherapy)	+		+		+						
S1.C.32	Pharmaceutical informatics											
S1.C.33	Biotechnology						+		+			
S1.C.34	Physical culture and sports											
S1.C.35	Основы военной подготовки											
Part formed by the participants of educational relations (variable part)												
S1.V.01	<b>Variable part disciplines</b>											
S1.V.01.01	Basics of botanical microtechnics	+										
S1.V.01.02	Legal basis of the pharmacist's activity											
S1.V.01.03	Introduction to the specialty											
S1.V.01.04	Modern methods of analysis of chemical compounds	+										
S1.V.01.05	Modern methods of analysis of chemical compounds											
S1.V.01.14	Pharmacopoeial methods of analysis	+			+							
S1.V.01.06	Pharmaceutical consulting and information											
S1.V.01.07	Fundamentals of medicinal plant growing			+								
S1.V.01.08	Disaster Medicine											
S1.V.01.09	Fundamentals of Biopharmaceutical						+		+			
S1.V.01.10	Fundamentals of phytotherapy			+								
S1.V.01.11	Modern methods of drug analysis											
S1.V.01.12	Innovative and nanotechnological forms in pharmaceutical technology						+		+			
S1.V.01.13	Simulation course, including emergency conditions	+			+							
S1.V.01.14	Elective disciplines in physical culture and sports: Professionally applied physical training/Sports and outdoor games/Cyclic sports											
<b>S1.V.ED.01</b>	<b>Elective disciplines 1(ED.1)</b>											
S1.V.Д.01.01	Microbiological control of medicines	+										

S1.V.E D.01.02	History of entrepreneurship	+		+									
S1.V.E D.01.03	Fundamentals of students' socialization (adaptation discipline)												
<b>S1.V. ED.02</b>	<b>Elective disciplines 2(ED.2)</b>												
S1.V.E D.02.01	Theoretical foundations of methods for studying the structure of chemical com- pounds	+											
S1.V.E D.02.03	Synthetic and natural biologically active compounds												
S1.V.E D.02.04	Ecological Botany	+											
S1.V.E D.02.05	Identification of organic compounds	+			+								
S1.V.E D.02.06	Psychology of conflict (adaptation disci- pline)												
<b>S1.V.E D.03</b>	<b>Elective disciplines 3(ED.3)</b>												
S1.V.E D.03.01	Pharmaceutical management, marketing and the basics of entrepreneurship	+	+	+	+	+	+	+					
S1.V.E D.03.02	Pharmaceutical logistics												
S1.V.E D.03.03	Modern methods of analysis of medicinal plant raw materials	+											
S1.V.E D.03.04	Preventive medicine for persons with disabilities (adaptive discipline)												
<b>S1.V.E D.04</b>	<b>Elective disciplines 4(ED.4)</b>												
S1.V.E D.04.01	Homeopathic technology of dosage forms						+		+				
S1.V.E D.04.02	Pharmaceutical technology of veterinary medicines						+		+				
S1.V.E D.04.03	Technology of medical and cosmetic preparations						+		+				
S1.V.E D.04.04	New herbal medicines	+											
S1.V.E D.04.05	Modern approaches to standardization of foreign and domestic medicines												
S1.V.E D.04.06	Chemical and toxicological studies in the clinical laboratory	+	+	+									

OD	Optional disciplines											
OD.V.01	Professional English											
OD.V.03	Communication activities											
<b>Section 2. Practice (on-the-job-training)</b>												
<b>Mandatory part</b>												
S2.C.01	<b>Educational practice</b>											
S2.C.01.01(E)	Botany practice	+										
S2.C.01.02(E)	First aid practice											
S2.C.01.03(E)	Pharmacognosy practice			+								
S2.C.01.04(E)	General Pharmaceutical Technology Practice	+			+							
S2.C.01.05(E)	Pharmaceutical propaedeutic practice											
S2.C.02	<b>Work practice</b>											
S2.C.02.01(W)	Practice in pharmaceutical technology	+			+							
S2.C.02.02(W)	Practice on quality control of medicines											
S2.C.02.03(W)	Practice in management and economics of pharmaceutical organizations									+	+	+
S2.C.02.04(w)	Pharmaceutical Consulting and Information Practice											
S2.C.02.05(R)	Research work	+	+	+	+	+						
<b>Section 3. State final certification</b>												
S3.01	Preparation for passing and passing the state final exam;	+	+	+	+	+	+	+	+	+	+	+

Name of disciplines (modules) in accordance with the curriculum	UC-6.	UC-7.	UC-8.



		Competence achievement indicators									
Section 1. Disciplines (module)		UC-6.1	UC-6.2	UC-6.3	UC-7.1	UC-7.2	UC-7.3	UC-8.1	UC-8.2	UC-8.3	UC-8.4
	Mandatory part										
S1.C.01	History (history of Russia, general history)										
S1.C.02	Foreign language (Russian language)										
S1.C.03	Latin language										
S1.C.04	History of Pharmacy										
S1.C.05	General and inorganic chemistry							+	+	+	
S1.C.06	Botany										
S1.C.07	Biology										
S1.C.08	Physiology with the basics of anatomy										
S1.C.09	Mathematics										
S1.C.10	Physics										
S1.C.11	Physical and colloidal chemistry										
S1.C.12	Microbiology										
S1.C.13	Philosophy										
S1.C.14	Analytical chemistry										
S1.C.15	Organic chemistry							+	+	+	
S1.C.16	First aid										+
S1.C.17	Life safety							+	+	+	+
S1.C.18	Pathology										
S1.C.19	Biological chemistry										
S1.C.20	Bioethics										
S1.C.21	Law science										
S1.C.22	General hygiene							+	+		
S1.C.23	Psychology and pedagogy	+									
S1.C.24	Pharmacology										
S1.C.25	Pharmaceutical technology										
S1.C.26	Pharmacognosy										
S1.C.27	Pharmaceutical chemistry										
S1.C.28	Toxicological chemistry										
S1.C.29	Medical and pharmaceutical commodity science										
S1.C.30	Pharmacy Management and Economics		+	+							
S1.C.31	Clinical pharmacology (pharmacotherapy)										



S1.C.32	Pharmaceutical informatics										
S1.C.33	Biotechnology										
S1.C.34	Physical culture and sports				+						
S1.C.35	Основы военной подготовки							+	+	+	+
Part formed by the participants of educational relations (variable part)											
S1.V.01	<b>Variable part</b>										
S1.V.01.01	Basics of botanical microtechnics										
S1.V.01.02	Legal basis of the pharmacist's activity										
S1.V.01.03	Introduction to the specialty										
S1.V.01.04	Modern methods of analysis of chemical compounds										
S1.V.01.05	Modern methods of analysis of chemical compounds										
S1.V.01.14	Pharmacopoeial methods of analysis										
S1.V.01.06	Pharmaceutical consulting and information										
S1.V.01.07	Fundamentals of medicinal plant growing										
S1.V.01.08	Disaster Medicine										+
S1.V.01.09	Fundamentals of Biopharmaceutical										
S1.V.01.10	Fundamentals of phytotherapy										
S1.V.01.11	Modern methods of drug analysis										
S1.V.01.12	Innovative and nanotechnological forms in pharmaceutical technology										
S1.V.01.13	Simulation course, including emergency conditions										
S1.V.01.14	Elective disciplines in physical culture and sports: Professionally applied physical training/Sports and outdoor games/Cyclic sports				+	+	+				
<b>S1.V.ED.01</b>	<b>Elective disciplines 1/(ED.1)</b>										
S1.V.E D.01.01	Microbiological control of medicines										

S1.V.E D.01.02	History of entrepreneurship										
S1.V.E D.01.03	Fundamentals of students' socialization (adaptation discipline)										
<b>S1.V.E ED.02</b>	<b>Elective disciplines 2(ED.2)</b>										
S1.V.E D.02.01	Theoretical foundations of methods for studying the structure of chemical compounds										
S1.V.E D.02.03	Synthetic and natural biologically active compounds							+	+	+	
S1.V.E D.02.04	Ecological Botany										
S1.V.E D.02.05	Identification of organic compounds										
S1.V.E D.02.06	Psychology of conflict (adaptation discipline)										
<b>S1.V.E D.03</b>	<b>Elective disciplines 3(ED.3)</b>										
S1.V.E D.03.01	Pharmaceutical management, marketing and the basics of entrepreneurship										
S1.V.E D.03.02	Pharmaceutical logistics										
S1.V.E D.03.03	Modern methods of analysis of medicinal plant raw materials										
S1.V.E D.03.04	Preventive medicine for persons with disabilities (adaptive discipline)										
<b>S1.V.E D.04</b>	<b>Elective disciplines 4(ED.4)</b>										

S1.V.E D.04.01	Homeopathic technology of dosage forms										
S1.V.E D.04.02	Pharmaceutical technology of veterinary medicines										
S1.V.E D.04.03	Technology of medical and cosmetic preparations										
S1.V.E D.04.04	New herbal medicines										
S1.V.E D.04.05	Modern approaches to standardization of foreign and domestic medicines										
S1.V.E D.04.06	Chemical and toxicological studies in the clinical laboratory										
<b>OD</b>	<b>Optional disciplines</b>										
OD.V.0 1	Professional English										
OD.V.0 3	Communication activities										
<b>Section 2. Practical training (on-the-job-training)</b>											
	Compulsory part										
<b>S2.C.01</b>	<b>Educational practice</b>										
S2.C.01. 01(E)	Botany practice										
S2.C.01. 02(E)	First aid practice										+
S2.C.01. 03(E)	Pharmacognosy practice										
S2.C.01. 04(E)	General Pharmaceutical Technology Practice										
S2.C.01. 05(E)	Pharmaceutical propaedeutic practice										
<b>S2.C.02</b>	<b>Work (on-the-job) practice</b>										
S2.C.02. 01(W)	Practice in pharmaceutical technology										
S2.C.02. 02(W)	Practice on quality control of medicines										
S2.C.02. 03(W)	Practice in management and economics of pharmaceutical organizations										
S2.C.02. 04(W)	Pharmaceutical Consulting and Information Practice										

S2.C.02.05(R)	Research work	+								+	
<b>Section 3. State final certification</b>											
S3.01	Preparation for passing ang passing State final exam	+	+	+	+	+	+	+	+	+	+

General professional competencies (GPC) their compliance with labor functions

Name of disciplines (modules) in accordance with the curriculum		GPC-1.				GPC-2.			GPC-3.			GPC-4.
		Competence achievement indicators										
Section 1. Disciplines (modules)		GPC-1.1 (LF A/03.7, A/05.7)	GPC1.2(LFA/03.7, A/05.7)	GPC-1.3 (LF A/03.7, A/05.7)	GPC-1.4	GPC-2.1 (LF A/01.7, A/04.7)	GPC-2.2 (LF A/04.7)	GPC-2.3 (LF A/04.7)	GPC-3.1 (LF A/03.7)	GPC-3.2	GPC-3.3 (LF A/01.7)	GPC-4.1 (LF A/04.7)
	Compulsory part											
S1.C.01	History (history of Russia, general history)											
S1.C.02	Foreign language (Russian language)											
S1.C.03	Latin language											
S1.C.04	History of Pharmacy											
S1.C.05	General and inorganic chemistry		+	+								
S1.C.06	Botany	+										
S1.C.07	Biology							+				
S1.C.08	Physiology with the basics of anatomy					+						
S1.C.09	Mathematics				+							
S1.C.10	Physics		+	+	+							
S1.C.11	Physical and colloidal chemistry		+	+								
S1.C.12	Microbiology	+			+							
S1.C.13	Philosophy											
S1.C.14	Analytical chemistry		+		+							
S1.C.15	Organic chemistry		+	+								
S1.C.16	First aid											

S1.C.17	Life safety											
S1.C.18	Pathology					+	+	+				
S1.C.19	Biological chemistry	+	+			+	+					
S1.C.20	Bioethics											+
S1.C.21	Law science								+			
S1.C.22	General hygiene										+	
S1.C.23	Psychology and pedagogy											
S1.C.24	Pharmacology					+	+	+				
S1.C.25	Pharmaceutical technology		+	+	+							
S1.C.26	Pharmacognosy		+									
S1.C.27	Pharmaceutical chemistry	+	+		+							
S1.C.28	Toxicological chemistry	+	+		+							
S1.C.29	Medical and pharmaceutical commodity science											
S1.C.30	Pharmacy Management and Economics								+	+		
S1.C.31	Clinical pharmacology (pharmacotherapy)					+	+	+				
S1.C.32	Pharmaceutical informatics											
S1.C.33	Biotechnology											
S1.C.34	Physical culture and sports											
S1.C.35	Основы военной подготовки											
Part formed by the participants of educational relations (variable part)												
S1.V.01.01	Basics of botanical microtechnics	+										
S1.V.01.02	Legal basis of the pharmacist's activity								+		+	
S1.V.01.03	Introduction to the specialty								+			
S1.V.01.04	Modern methods of analysis of chemical compounds		+									
S1.V.01.05	Modern methods of analysis of chemical compounds											
S1.V.01.14	Pharmacopoeial methods of analysis		+		+							
S1.V.01.06	Pharmaceutical consulting and information											
S1.V.01.07	Fundamentals of medicinal plant growing		+									
S1.V.01.08	Disaster Medicine											
S1.V.01.09	Fundamentals of Biopharmaceutical		+	+								

S1.V.01.10	Fundamentals of phytotherapy		+					+				
S1.V.01.11	Modern methods of drug analysis		+		+							
S1.V.01.12	Innovative and nanotechnological forms in pharmaceutical technology		+	+								
S1.V.01.13	Simulation course, including emergency conditions								+			
S1.V.01.14	Elective disciplines in physical culture and sports: Professionally applied physical training/Sports and outdoor games/Cyclic sports											
<b>S1.V. ED.01</b>	<b>Elective disciplines I (ED1)</b>											
S1.V.ED.01.01	Microbiological control of medicines	+										
S1.V.ED.01.02	History of entrepreneurship											
S1.V.ED.01.03	Fundamentals of students' socialization (adaptation discipline)											
<b>S1.V. ED.02</b>	<b>Elective disciplines 2(ED.2)</b>											
S1.V.ED.02.01	Theoretical foundations of methods for studying the structure of chemical compounds		+	+								
S1.V.ED.02.03	Synthetic and natural biologically active compounds		+	+								
S1.V.ED.02.04	Ecological Botany		+									
S1.V.ED.02.05	Identification of organic compounds		+									
S1.V.ED.02.06	Psychology of conflict (adaptation discipline)											
<b>S1.V.ED.03</b>	<b>Elective disciplines 3(ED.3)</b>											
S1.V.ED.03.01	Pharmaceutical management, marketing and the basics of entrepreneurship											
S1.V.ED.03.02	Pharmaceutical logistics			+								
S1.V.ED.03.03	Modern methods of analysis of medicinal plant raw materials	+	+									

S1.V.ED.03.04	Preventive medicine for persons with disabilities (adaptive discipline)					+	+	+				
<b>S1.V.ED.04</b>	<b>Elective disciplines 4(ED.4)</b>											
S1.V.ED.04.01	Homeopathic technology of dosage forms		+	+								
S1.V.ED.04.02	Pharmaceutical technology of veterinary medicines		+	+								
S1.V.ED.04.03	Technology of medical and cosmetic preparations		+	+								
S1.V.ED.04.04	New herbal medicines							+				
S1.V.ED.04.05	Modern approaches to standardization of foreign and domestic medicines		+		+							
S1.V.ED.04.06	Chemical and toxicological studies in the clinical laboratory	+	+									
<b>OD</b>	<b>Optional disciplines</b>											
OD.V.01	Professional English											
OD.V.03	Communication activities											+
<b>Section 2.</b>	<b>Practical training</b>											
	<b>Compulsory part</b>											
<b>S2.C.01</b>	<b>Educational practice</b>											
S2.C.01.01(E)	Botany practice	+										
S2.C.01.02(E)	First aid practice											+
S2.C.01.03(E)	Pharmacognosy practice		+									
S2.C.01.04(E)	General Pharmaceutical Technology Practice		+	+								
S2.C.01.05(E)	Pharmaceutical propaedeutic practice								+			
<b>S2.C.02</b>	<b>Work (on-the-job) practice</b>											
S2.C.02.01(W)	Practice in pharmaceutical technology		+	+								
S2.C.02.02(W)	Practice on quality control of medicines		+		+				+		+	

S2.C.02.03(W)	Practice in management and economics of pharmaceutical organizations								+	+		
S2.C.02.04(W)	Pharmaceutical Consulting and Information Practice											
S2.C.02.05(R)	Research work		+	+	+				+	+	+	
Section 3 state final certification												
S3.01	Preparation for passing and passing the state final exam	+	+	+	+	+	+	+	+	+	+	+

Professional competencies (PC) their compliance with labor functions

Name of disciplines (modules) in accordance with the curriculum		PC-1.				PC-2.				PC-3.		
		Competence achievement indicators										
<b>Section 1</b>	<b>Disciplines (modules)</b>	PC-1.1. (LF A/05.7)	PC-1.2. (LF A/05.7)	PC-1.3. (LF A/05.7)	PC-1.4. (LF A/05.7)	PC-2.1. (LF A/01.7)	PC-2.2. (LF A/01.7)	PC-2.3. (LF A/01.7)	PC-2.4. (LF A/01.7)	PC-2.5. (LF A/02.7)	PC-3.1. (LF A/01.7-05.7)	
	<b>Compulsory part</b>											
S1.C.01	History (history of Russia, general history)											
S1.C.02	Foreign language (Russian language)											
S1.C.03	Latin language											
S1.C.04	History of Pharmacy											
S1.C.05	General and inorganic chemistry											
S1.C.06	Botany											
S1.C.07	Biology											
S1.C.08	Physiology with the basics of anatomy											



S1.C.09	Mathematics										
S1.C.10	Physics										
S1.C.11	Physical and colloidal chemistry										
S1.C.12	Microbiology										
S1.C.13	Philosophy										
S1.C.14	Analytical chemistry										
S1.C.15	Organic chemistry										
S1.C.16	First aid										
S1.C.17	Life safety										
S1.C.18	Pathology										
S1.C.19	Biological chemistry										
S1.C.20	Bioethics										
S1.C.21	Law science										
S1.C.22	General hygiene										
S1.C.23	Psychology and pedagogy										
S1.C.24	Pharmacology										+
S1.C.25	Pharmaceutical technology	+	+	+	+						
S1.C.26	Pharmacognosy										
S1.C.27	Pharmaceutical chemistry										
S1.C.28	Toxicological chemistry										
S1.C.29	Medical and pharmaceutical commodity science					+	+	+	+	+	+
S1.C.30	Pharmacy Management and Economics					+	+	+	+	+	
S1.C.31	Clinical pharmacology (pharmacotherapy)										+
S1.C.32	Pharmaceutical informatics										
S1.C.33	Biotechnology	+	+	+	+						
S1.C.34	Physical culture and sports										
S1.C.35	Основы военной подготовки										
Part formed by the participants of educational relations (variable part)											
S1.V.01.01	Basics of botanical microtechnics										
S1.V.01.02	Legal basis of the pharmacist's activity										
S1.V.01.03	Introduction to the specialty									+	
S1.V.01.04	Modern methods of analysis of chemical compounds										
S1.V.01.05	Modern methods of analysis of chemical compounds										

S1.V.01.1 4	Pharmacopoeial methods of analysis										
S1.V.01.0 6	Pharmaceutical consulting and information										+
S1.V.01.0 7	Fundamentals of medicinal plant growing										
S1.V.01.0 8	Disaster Medicine										
S1.V.01.0 9	Fundamentals of Biopharmaceutical										
S1.V.01.1 0	Fundamentals of phytotherapy										+
S1.V.01.1 1	Modern methods of drug analysis										
S1.V.01.1 2	Innovative and nanotechnological forms in pharmaceutical technology										
S1.V.01.1 3	Simulation course, including emergency conditions	+	+			+					+
S1.V.01.1 4	Elective disciplines in physical culture and sports: Professionally applied physical training/Sports and outdoor games/Cyclic sports										
<b>S1.V. ED.01</b>	<b><u>Elective disciplines 1 (ED 1)</u></b>										
S1.V.ED. 01.01	Microbiological control of medicines										
S1.V.ED. 01.02	History of entrepreneurship										
S1.V.ED. 01.03	Fundamentals of students' socialization (adaptation discipline)										
<b>S1.V. ED.02</b>	<b><u>Elective disciplines 2(ED.2)</u></b>										
S1.V.ED. 02.01	Theoretical foundations of methods for studying the structure of chemical compounds										
S1.V.ED. 02.03	Synthetic and natural biologically active compounds										
S1.V.ED. 02.04	Ecological Botany										
S1.V.ED. 02.05	Identification of organic compounds										
S1.V.ED. 02.06	Psychology of conflict (adaptation discipline)										

<b>S1.V.ED.03</b>	<b>Elective disciplines 3(ED.3)</b>										
S1.V.ED.03.01	Pharmaceutical management, marketing and the basics of entrepreneurship									+	
S1.V.ED.03.02	Pharmaceutical logistics										
S1.V.ED.03.03	Modern methods of analysis of medicinal plant raw materials										
S1.V.ED.03.04	Preventive medicine for persons with disabilities (adaptive discipline)	+	+	+	+						
<b>S1.V.ED.04</b>	<b>Elective disciplines 4(ED.4)</b>										
S1.V.ED.04.01	Homeopathic technology of dosage forms	+	+	+	+						
S1.V.ED.04.02	Pharmaceutical technology of veterinary medicines	+	+	+	+						
S1.V.ED.04.03	Technology of medical and cosmetic preparations	+	+	+	+						
S1.V.ED.04.04	New herbal medicines										+
S1.V.ED.04.05	Modern approaches to standardization of foreign and domestic medicines										
S1.V.ED.04.06	Chemical and toxicological studies in the clinical laboratory										
<b>OD</b>	<b>Optional disciplines</b>										
OD.V.01	Professional English										
Od.V.03	Communication activities										
<b>Section 2</b>	<b>Practical training</b>										
	Compulsory part										
<b>S2.C.01</b>	<b>Educational practice</b>										
S2.C.01.01(E)	Botany practice										
S2.C.01.02(E)	First aid practice										
S2.C.01.03(E)	Pharmacognosy practice										

S2.C.01.0 4(E)	General Pharmaceutical Technology Practice	+	+	+	+						
S2.C.01.0 5(E)	Pharmaceutical propaedeutic practice									+	
<b>S2.C.02</b>	<b>Work(on-the-job)practice</b>										
S2.C.02.0 1(W)	Practice in pharmaceutical technology	+	+	+	+						
S2.C.02.0 2(W)	Practice on quality control of medicines										
S2.C.02.0 3(W)	Practice in management and economics of pharmaceutical organizations					+	+	+	+	+	
S2.C.02.0 4(W)	Pharmaceutical Consulting and Information Practice										+
S2.C.02.0 5(R)	Research work	+	+	+	+	+	+	+	+	+	+
<b>Section 3 State final certification</b>											
<b>S3</b>	<b>State final exam</b>	+	+	+	+	+	+	+	+	+	+

Name of disciplines (modules) in accordance with the curriculum		PC-5.								PC-6.	
		Competence achievement indicators									
<u>Section 1</u>	<u>Disciplines (modules)</u>	PC-5.1. (LF A/01.7-03.7)	PC-5.2. (LF A/01.7-03.7)	PC-5.3. (LF A/01.7-03.7)	PC-5.4. (LF A/02.7, 03.7, 05.7)	PC-5.5. (LF A/01.7-03.7)	PC-5.6. (LF A/01.7-03.7)	PC-5.7. (LF A/02.7, 03.7, 05.7)	PC-6.1. (LF A/02.7, 03.7)	PC-6.2. (LF A/02.7, 03.7)	
	Compulsory part										
S1.C.01	History (history of Russia, general history)										
S1.C.02	Foreign language (Russian language)										
S1.C.03	Latin language										
S1.C.04	History of Pharmacy										
S1.C.05	General and inorganic chemistry										
S1.C.06	Botany										
S1.C.07	Biology										
S1.C.08	Physiology with the basics of anatomy										
S1.C.09	Mathematics										

S1.C.10	Physics									
S1.C.11	Physical and colloidal chemistry									
S1.C.12	Microbiology									
S1.C.13	Philosophy									
S1.C.14	Analytical chemistry									
S1.C.15	Organic chemistry									
S1.C.16	First aid									
S1.C.17	Life safety									
S1.C.18	Pathology									
S1.C.19	Biological chemistry									
S1.C.20	Bioethics									
S1.C.21	Law science									
S1.C.22	General hygiene									
S1.C.23	Psychology and pedagogy									
S1.C.24	Pharmacology									
S1.C.25	Pharmaceutical technology									
S1.C.26	Pharmacognosy				+			+		
S1.C.27	Pharmaceutical chemistry				+			+		
S1.C.28	Toxicological chemistry									
S1.C.29	Medical and pharmaceutical commodity science									
S1.C.30	Pharmacy Management and Economics	+	+	+	+	+	+	+	+	
S1.C.31	Clinical pharmacology (pharmaco-therapy)									
S1.C.32	Pharmaceutical informatics									
S1.C.33	Biotechnology									
S1.C.34	Physical culture and sports									
S1.C.35	Основы военной подготовки									
Part formed by the participants of educational relations (variable part)										
S1.V.01.01	Basics of botanical microtechnics									
S1.V.01.02	Legal basis of the pharmacist's activity									
S1.V.01.03	Introduction to the specialty									
S1.V.01.04	Modern methods of analysis of chemical compounds									
S1.V.01.05	Modern methods of analysis of chemical compounds									
S1.V.01.14	Pharmacopoeial methods of analysis									
S1.V.01.06	Pharmaceutical consulting and information									

S1.V.01.07	Fundamentals of medicinal plant growing							+		
S1.V.01.08	Disaster Medicine								+	+
S1.V.01.09	Fundamentals of Biopharmaceutical									
S1.V.01.10	Fundamentals of phytotherapy									
S1.V.01.11	Modern methods of drug analysis									
S1.V.01.12	Innovative and nanotechnological forms in pharmaceutical technology									
S1.V.01.13	Simulation course, including emergency conditions				+			+		
S1.V.01.14	Elective disciplines in physical culture and sports: Professionally applied physical training/Sports and outdoor games/Cyclic sports									
<b>S1.V. ED.01</b>	<b>Elective disciplines (ED1)</b>									
S1.V.ED.01.01	Microbiological control of medicines									
S1.V.ED.01.02	History of entrepreneurship									
S1.V.ED.01.03	Fundamentals of students' socialization (adaptation discipline)									
<b>S1.V. ED.02</b>	<b>Elective disciplines 2(ED.2)</b>									
S1.V.ED.02.01	Theoretical foundations of methods for studying the structure of chemical compounds									
S1.V.ED.02.03	Synthetic and natural biologically active compounds									
S1.V.ED.02.04	Ecological Botany									
S1.V.ED.02.05	Identification of organic compounds									
S1.V.ED.02.06	Psychology of conflict (adaptation discipline)									
<b>S1.V.ED.03</b>	<b>Elective disciplines 3(ED.3)</b>									
S1.V.ED.03.01	Pharmaceutical management, marketing and the basics of entrepreneurship									
S1.V.ED.03.02	Pharmaceutical logistics		+	+	+			+		
S1.V.ED.03.03	Modern methods of analysis of medicinal plant raw materials									
S1.V.ED.03.04	Preventive medicine for persons with disabilities (adaptive discipline)									
<b>S1.V.ED.04</b>	<b>Elective disciplines 4(ED.4)</b>									

S1.V.ED.04.01	Homeopathic technology of dosage forms									
S1.V.ED.04.02	Pharmaceutical technology of veterinary medicines									
S1.V.ED.04.03	Technology of medical and cosmetic preparations									
S1.V.ED.04.04	New herbal medicines									
S1.V.ED.04.05	Modern approaches to standardization of foreign and domestic medicines									
S1.V.ED.04.06	Chemical and toxicological studies in the clinical laboratory									
OD	Optional disciplines									
OD.V.01	Professional English									
OD.V.03	Communication activities									
<b>Section 2</b>	<b>Practical training</b>									
	Compulsory part									
<b>S2.C.01</b>	<b>Educational practice</b>									
S2.C.01.01(E)	Botany practice									
S2.C.01.02(E)	First aid practice									
S2.C.01.03(E)	Pharmacognosy practice							+		
S2.C.01.04(E)	General Pharmaceutical Technology Practice									
S2.C.01.05(E)	Pharmaceutical propaedeutic practice									
<b>S2.C.02</b>	<b>Work (on-the-job) practice</b>									
S2.C.02.01(W)	Practice in pharmaceutical technology									
S2.C.02.02(W)	Practice on quality control of medicines				+			+		
S2.C.02.03(W)	Practice in management and economics of pharmaceutical organizations	+	+	+	+	+	+	+		
S2.C.02.04(W)	Pharmaceutical Consulting and Information Practice									
S2.C.02.05(R)	Research work	+	+						+	+
<b>Section 3. State final certification</b>										
S3.01	Preparation for passing and passing State final certification;	+	+	+	+	+	+	+	+	+

Name of disciplines (modules) in accordance with the curriculum		PC-8.		PC-9.			PC-10.	
		Competence achievement indicators						
<u>Section 1</u>	<u>Disciplines (modules)</u>	PC-8.1. (LF A/03.7)	PC-8.2. (LF A/03.7)	PC-9.1. (LF A/01.7)	PC-9.2. (LF A/04.7)	PC-9.3. (LF A/01.7)	PC-10.1. (LF A/04.7)	PC-10.2. (LF A/03.7; 05.7)
	<b>Compulsory part</b>							
S1.C.01	History (history of Russia, general history)							
S1.C.02	Foreign language (Russian language)							
S1.C.03	Latin language							
S1.C.04	History of Pharmacy							
S1.C.05	General and inorganic chemistry							
S1.C.06	Botany							
S1.C.07	Biology							
S1.C.08	Physiology with the basics of anatomy							
S1.C.09	Mathematics							
S1.C.10	Physics							
S1.C.11	Physical and colloidal chemistry							+
S1.C.12	Microbiology							
S1.C.13	Philosophy							
S1.C.14	Analytical chemistry							
S1.C.15	Organic chemistry							
S1.C.16	First aid							
S1.C.17	Life safety							
S1.C.18	Pathology						+	
S1.C.19	Biological chemistry						+	
S1.C.20	Bioethics							
S1.C.21	Law science							
S1.C.22	General hygiene							
S1.C.23	Psychology and pedagogy							
S1.C.24	Pharmacology						+	
S1.C.25	Pharmaceutical technology	+	+					
S1.C.26	Pharmacognosy							
S1.C.27	Pharmaceutical chemistry							+
S1.C.28	Toxicological chemistry							
S1.C.29	Medical and pharmaceutical commodity science							
S1.C.30	Pharmacy Management and Economics			+		+		



S1.C.31	Clinical pharmacology (pharmacotherapy)						+	
S1.C.32	Pharmaceutical informatics							
S1.C.33	Biotechnology							
S1.C.34	Physical culture and sports							
S1.C.35	Основы военной подготовки							
Part formed by the participants of educational relations (variable part)								
S1.V.01.01	Basics of botanical microtechnics							
S1.V.01.02	Legal basis of the pharmacist's activity							
S1.V.01.03	Introduction to the specialty							
S1.V.01.04	Modern methods of analysis of chemical compounds							
S1.V.01.05	Modern methods of analysis of chemical compounds							
S1.V.01.14	Pharmacopoeial methods of analysis							
S1.V.01.06	Pharmaceutical consulting and information				+			
S1.V.01.07	Fundamentals of medicinal plant growing							
S1.V.01.08	Disaster Medicine							
S1.V.01.09	Fundamentals of Biopharmaceutical							+
S1.V.01.10	Fundamentals of phytotherapy							
S1.V.01.11	Modern methods of drug analysis							+
S1.V.01.12	Innovative and nanotechnological forms in pharmaceutical technology							+
S1.V.01.13	Simulation course, including emergency conditions							
S1.V.01.14	Elective disciplines in physical culture and sports: Professionally applied physical training/Sports and outdoor games/Cyclic sports							
<b>S1.V. ED.01</b>	<b>Elective disciplines (ED 1)</b>							
S1.V.ED.01.01	Microbiological control of medicines							
S1.V.ED.01.02	History of entrepreneurship							
S1.V.ED.01.03	Fundamentals of students' socialization (adaptation discipline)							
<b>S1.V. ED.02</b>	<b>Elective disciplines 2(ED.2)</b>							
S1.V.ED.02.01	Theoretical foundations of methods for studying the structure of chemical compounds							
S1.V.ED.02.03	Synthetic and natural biologically active compounds							
S1.V.ED.02.04	Ecological Botany							
S1.V.ED.02.05	Identification of organic compounds							
S1.V.ED.02.06	Psychology of conflict (adaptation discipline)							
<b>S1.V.ED.03</b>	<b>Elective disciplines 3(ED.3)</b>							
S1.V.ED.03.01	Pharmaceutical management, marketing and the basics of entrepreneurship							

S1.V.ED.03.02	Pharmaceutical logistics			+		+		
S1.V.ED.03.03	Modern methods of analysis of medicinal plant raw materials							
S1.V.ED.03.04	Preventive medicine for persons with disabilities (adaptive discipline)							
<b>S1.V.ED.04</b>	<b>Elective disciplines 4(ED.4)</b>							
S1.V.ED.04.01	Homeopathic technology of dosage forms							
S1.V.ED.04.02	Pharmaceutical technology of veterinary medicines	+	+					
S1.V.ED.04.03	Technology of medical and cosmetic preparations							
S1.V.ED.04.04	New herbal medicines							
S1.V.ED.04.05	Modern approaches to standardization of foreign and domestic medicines							+
S1.V.ED.04.06	Chemical and toxicological studies in the clinical laboratory							
<b>OD</b>	<b>Optional disciplines</b>							
OD.V.01	Professional English							
OD.V.03	Communication activities							
<b>Section 2</b>	<b>Practical training</b>							
	Compulsory part							
<b>S2.C.01</b>	<b>Educational practice</b>							
S2.C.01.01(E)	Botany practice							
S2.C.01.02(E)	First aid practice							
S2.C.01.03(E)	Pharmacognosy practice							
S2.C.01.04(E)	General Pharmaceutical Technology Practice							
S2.C.01.05(E)	Pharmaceutical propaedeutic practice							
<b>S2.C.02</b>	<b>Work (on-the-job ) practice</b>							
S2.C.02.01(R)	Practice in pharmaceutical technology							
S2.C.02.02(R)	Practice on quality control of medicines							+
S2.C.02.03(R)	Practice in management and economics of pharmaceutical organizations			+	+	+		
S2.C.02.04(R)	Pharmaceutical Consulting and Information Practice							
S2.C.02.05(R)	Research work	+	+	+	+	+	+	+
<b>Section 3. State final certification</b>								
S.01	Preparation for passing and passing State final exam;	+	+	+	+	+	+	+

Name of disciplines (modules) in accordance with the curriculum		PC-12.			PC-13.		
		Competence achievement indicators					
<u>Section 1</u>	<u>Disciplines (modules)</u>	PC-12.1. (LF A/05.7)	PC-12.2. (LF A/05.7)	PC-12.3. (LF A/05.7)	PC-13.1. (LF A/05.7)	PC-13.2. (LF A/05.7)	PC-13.3. (LF A/05.7)
	<b>Compulsory part</b>						
S1.C.01	History (history of Russia, general history)						
S1.C.02	Foreign language (Russian language)						
S1.C.03	Latin language						
S1.C.04	History of Pharmacy						
S1.C.05	General and inorganic chemistry						
S1.C.06	Botany						
S1.C.07	Biology						
S1.C.08	Physiology with the basics of anatomy						
S1.C.09	Mathematics						
S1.C.10	Physics						
S1.C.11	Physical and colloidal chemistry						
S1.C.12	Microbiology						
S1.C.13	Philosophy						
S1.C.14	Analytical chemistry						
S1.C.15	Organic chemistry						
S1.C.16	First aid						
S1.C.17	Life safety						
S1.C.18	Pathology						
S1.C.19	Biological chemistry						
S1.C.20	Bioethics						
S1.C.21	Law science						
S1.C.22	General hygiene						
S1.C.23	Psychology and pedagogy						
S1.C.24	Pharmacology						
S1.C.25	Pharmaceutical technology		+	+	+	+	+
S1.C.26	Pharmacognosy						
S1.C.27	Pharmaceutical chemistry	+	+				
S1.C.28	Toxicological chemistry						
S1.C.29	Medical and pharmaceutical commodity science						
S1.C.30	Pharmacy Management and Economics						
S1.C.31	Clinical pharmacology (pharmacotherapy)						

S1.C.32	Pharmaceutical informatics						
S1.C.33	Biotechnology				+	+	+
S1.C.34	Physical culture and sports						
Variable part							
S1.V.01.01	Basics of botanical microtechnics						
S1.V.01.02	Legal basis of the pharmacist's activity						
S1.V.01.03	Introduction to the specialty						
S1.V.01.04	Modern methods of analysis of chemical compounds						
S1.V.01.05	Modern methods of analysis of chemical compounds						
S1.V.01.14	Pharmacopoeial methods of analysis						
S1.V.01.06	Pharmaceutical consulting and information						
S1.V.01.07	Fundamentals of medicinal plant growing						
S1.V.01.08	Disaster Medicine						
S1.V.01.09	Fundamentals of Biopharmaceutical						
S1.V.01.10	Fundamentals of phytotherapy						
S1.V.01.11	Modern methods of drug analysis						
S1.V.01.12	Innovative and nanotechnological forms in pharmaceutical technology						
S1.V.01.13	Simulation course, including emergency conditions						
S1.V.01.14	Elective disciplines in physical culture and sports: Professionally applied physical training/Sports and outdoor games/Cyclic sports						
<b>S1.V. ED.01</b>	<b>Elective disciplines (ED 1)</b>						
S1.V.ED.01.01	Microbiological control of medicines						
S1.V.ED.01.02	History of entrepreneurship						
S1.V.ED.01.03	Fundamentals of students' socialization (adaptation discipline)						
<b>S1.V. ED.02</b>	<b>Elective disciplines 2(ED.2)</b>						
S1.V.ED.02.01	Theoretical foundations of methods for studying the structure of chemical compounds						
S1.V.ED.02.03	Synthetic and natural biologically active compounds						
S1.V.ED.02.04	Ecological Botany						
S1.V.ED.02.05	Identification of organic compounds						
S1.V.ED.02.06	Psychology of conflict (adaptation discipline)						
<b>S1.V.ED.03</b>	<b>Elective disciplines 3(ED.3)</b>						
S1.V.ED.03.01	Pharmaceutical management, marketing and the basics of entrepreneurship						

S1.V.ED.03.0 2	Pharmaceutical logistics						
S1.V.ED.03.0 3	Modern methods of analysis of medicinal plant raw materials						
S1.V.ED.03.0 4	Preventive medicine for persons with disabilities (adaptive discipline)						
<b>S1.V.ED.04</b>	<b>Elective disciplines 4(ED.4)</b>						
S1.V.ED.04.0 1	Homeopathic technology of dosage forms						
S1.V.ED.04.0 2	Pharmaceutical technology of veterinary medicines						
S1.V.ED.04.0 3	Technology of medical and cosmetic preparations						
S1.V.ED.04.0 4	New herbal medicines						
S1.V.ED.04.0 5	Modern approaches to standardization of foreign and domestic medicines						
S1.V.ED.04.0 6	Chemical and toxicological studies in the clinical laboratory						
<b>OD</b>	<b>Optional disciplines</b>						
OD.V.01	Professional English						
OD.V.02	Communication activities						
<b>Section 2</b>	<b>Practical training</b>						
	Compulsory part						
<b>S2.C.01</b>	<b>Educational practice</b>						
S2.C.01.01(E)	Botany practice						
S2.C.01.02(E)	First aid practice						
S2.C.01.03(E)	Pharmacognosy practice						
S2.C.01.04(E)	General Pharmaceutical Technology Practice						
S2.C.01.05(E)	Pharmaceutical propaedeutic practice						
<b>S2.C.02</b>	<b>Work (on-the-job) practice</b>						
S2.C.02.01(W)	Practice in pharmaceutical technology		+	+	+	+	+
S2.C.02.02(W)	Practice on quality control of medicines	+		+			
S2.C.02.03(W)	Practice in management and economics of pharmaceutical organizations						
S2.C.02.04(W)	Pharmaceutical Consulting and Information Practice						
S2.C.02.05(R)	Research work			+			
<b>Section 3. State final certification</b>							
S3.01	Preparation for passing and passing State final exam	+	+	+	+	+	+

### **3.DOCUMENTS REGULATING THE CONTENT AND ORGANIZATION OF THE EDUCATIONAL PROCESS BASED ON THE EDUCATIONAL PROGRAMME OF HIGHER EDUCATION IN THE SPECIALTY 33.05.01 PHARMACY**

#### **3.1. The curriculum and calendar curriculum of the EPHE in the Specialty 33.05.01 Pharmacy (Appendix № 1 link <https://bashgmu.ru>).**

The curriculum with the schedule of the educational process, developed for the educational programme for the Specialty 33.05.01 Pharmacy, are given in Appendix 1.

The curriculum displays the logical sequence of mastering the sections of the EPPHE (disciplines, modules, practices) that ensure the formation of competences. The total workload of disciplines, modules, practices is indicated in credit units, as well as their total and classroom workload in academic hours.

The calendar curriculum developed for the Educational Programme of Higher Education for the Specialty 33.05.01 Pharmacy is given in Appendix 2(<https://bashgmu.ru>).

The calendar curriculum indicates the sequence of implementation of the educational programme by years, including theoretical training, practical training, research work, intermediate and final certification, vacations.

#### **The Specialist's programme consists of the following sections:**

**Section 1** "Disciplines (modules)", which includes disciplines (modules) related to the compulsory part of the programme and disciplines (modules) related to its variable part (elective disciplines and optional disciplines).

**Section 2** "Practical training", which is fully related to the compulsory part of the programme.

**Section 3** "State Final Attestation", which is fully related to the compulsory part of the programme. Disciplines (modules) and practices related to the compulsory part of the Specialist programme are mandatory for students to master. The set of disciplines (modules) and practices related to the compulsory part of the Specialist's programme is determined by the educational organization independently in the volume established in the Federal State Educational Standard of Higher Education in the Specialty 33.05.01 Pharmacy, taking into account the corresponding educational programme of higher education.

Disciplines (modules) in philosophy, history (History of Russia, General history), foreign language, life safety are implemented within the framework of the compulsory part of Section 1 "Disciplines (modules)" of the Specialist's programme.

The scope, content and procedure for the implementation of these disciplines (modules) are determined by the educational organization independently. For each discipline, practice, the types of academic work, forms of intermediate and final certification are indicated. (Curriculum for the Specialty 33.05.01 Pharmacy is attached). Disciplines (modules) Physical culture and Sport are implemented in a framework:

- the compulsory part of Section 1 "Disciplines (modules)" of the Specialist programme is at least 72 academic hours (2 credits) in full-time mode of education;
- elective disciplines (modules) in the volume of at least 328 academic hours. These academic hours are obligatory for implementation and are not converted into credit units.

Disciplines (modules) in physical culture and sports are implemented in the form prescribed by the organization. For students with disabilities, the organization establishes a special procedure for mastering disciplines (modules) in physical culture and sports, taking into account their health state.

Disciplines (modules) related to the variable part of the Specialist's programme determine, among other things, the specialization of the Specialist programme. The set of disciplines (modules) related to the variable part is determined by the educational organization independently, in the volume established by the Federal State Educational Standard of Higher Education in the Specialty Pharmacy. After the student chooses a set of relevant disciplines (modules), they are mandatory for the student to master.

**Section 2 "Practical training", which fully refers to the compulsory part of the programme**

**Section 3 "State Final Certification"** includes preparation for passing and passing the state final exam.

The implementation of practical training of students, carried out in accordance with the Procedure for the organization and conduct of practical training of students in the educational program of pharmaceutical

education, as well as the state final certification is not allowed with the use of e-learning, distance educational technologies.

### **3.2. Annotations of the work programmes of disciplines (Appendix 2, link <https://bashgmu.ru>)**

In accordance with the presented curriculum, the work programmes (syllabi) of the disciplines of the compulsory, variable (mandatory) cycles and disciplines have been developed and presented. The work programmes of the disciplines (modules) of the compulsory parts of all cycles of the EPPHE for the Specialty 33.05.01 Pharmacy are given in Appendix 3.

The work programmes of each discipline (module, course) clearly articulate the end results of learning in the relationship with the acquired knowledge, skills and acquired competences in general in the EPPHE.

The work programmes of the compulsory disciplines of the professional cycle include tasks that contribute to the development of the competences of the professional activity for which the graduate is preparing, to the extent that allows the formation of the relevant competences.

### **3.3. Practice programmes (Appendix 3, link <https://bashgmu.ru>)**

In accordance with the FSES HE, practical training is a mandatory section of the Specialist's programme. It is a type of training sessions directly focused on the professional and practical training of students. Work programmes of practices are given in Appendix 4.

When implementing the training of students in the Pharmacy Specialist's programme, the following types of practices are provided: training for obtaining primary professional skills and abilities, including primary skills and abilities of research activities and production ones for obtaining professional skills and experience of professional activity. Goals and objectives, programs and forms of reporting are determined by the university and reflected in the practice programs (Appendix 3).

**Practical training includes** Educational practice and work (on-the-job) practice:

Types of Educational Practice:

- pharmaceutical propaedeutic practice;
- Botany practice;
- Pharmacognosy practice;
- First Aid Practice;
- General Pharmaceutical Technology Practice.

Types of Work Practice:

- Practice in Pharmaceutical Technology;
- Practice on quality control of medicines;
- Practice in Management and Economics of Pharmaceutical Organizations;
- Pharmaceutical Consulting and Information Practice.

When designing the Specialist's programmes, an educational organization chooses the forms of conducting practices, depending on the type (s) of activity, to which (which) the educational programme is oriented. An educational organization has the right to establish other forms of conducting practices in addition to those established by the Federal State Educational Standards of Higher Education.

Educational and work practice can be carried out of the structural divisions of the organization.

The choice of places for practical training for persons with disabilities is made taking into account the state of health of students and accessibility requirements.

Practice is carried out in the following forms:

- a) Continuously - by allocating a continuous period of study time in the calendar curriculum for all types of practices provided for by the EPPHE;
- b) Discretely:
  - by types of practices - by allocating a continuous period of study time in the calendar curriculum for each type (set of types) of practice;
  - by periods of practice - by alternating in the calendar curriculum periods of study time for conducting practices with periods of study time for conducting theoretical classes.
- c) It is possible to combine discrete practices according to their types and periods of their implementation.
- d) Practice for students with disabilities is carried out taking into account the peculiarities of their psychophysical development, individual capabilities and health status.

The practice is conducted in accordance with the practice program, which includes:

- indication of the type of practice, method (if any) and form(s) of its implementation;
- a list of the planned learning outcomes during the internship, correlated with the planned results of the development of the educational program;
- indication of the place of practice in the structure of the educational program;
- indication of the amount of practice in credits and its duration in weeks or in academic or astronomical hours;
- content of the practice;
- indication of practice reporting forms;
- assessment materials for the intermediate certification of students in practice (practice diary, summary report on practice and characteristics, research work of students (presentations, abstracts).
- list of educational literature and Internet resources necessary for the practice;
- list of information technologies used during the practice, including a list of software and information reference systems (if necessary);
- description of the material and technical base necessary for the practice.

The practice programmes are presented in Appendix 4 (link <https://bashgmu.ru>).

Practices can be conducted in other organizations of the healthcare system, at departments and in laboratories of the university that have the necessary personnel and scientific and technical support.

### **3.4. The program of the state final certification**

The programme "State final certification" includes preparation for passing and passing the state exam (Appendix 4).

The implementation of practical training of students carried out in accordance with the Procedure for organizing and conducting practical training of students according to the educational programme of pharmaceutical education, as well as the state final certification is not allowed with the use of e-learning, distance educational technologies.

## **4. CONDITIONS FOR IMPLEMENTATION OF THE EDUCATIONALE PROGRAMME IN THE SPECIALTY 33.05.01 PHARMACY**

The resource support of this educational programme is formed on the basis of the requirements for the conditions for the implementation of the Specialist degree educational programmes, determined by the Federal State Educational Standard of Higher Education in the Specialty 33.05.01 Pharmacy.

### **4.1. Human resourcing for the implementation of the educational programme (Staffing)**

The implementation of the program is provided by the managerial and scientific and pedagogical employees of the organization, as well as persons involved in the implementation of the program on the terms of a civil contract (in accordance with the Federal State Budgetary System).

The share of scientific and pedagogical workers (in the rates reduced to integer values) conducting scientific, educational and methodological and (or) practical work corresponding to the profile of the discipline (module) taught in the total number of scientific and pedagogical workers implementing the specialty program is at least 70%.

The share of scientific and pedagogical workers (in the rates reduced to integer values) who have an academic degree (including an academic degree obtained in a foreign state and recognized in the Russian Federation) and (or) an academic title (including an academic title obtained in a foreign state and recognized in the Russian Federation), in general the number of scientific and pedagogical workers implementing the specialty program is at least 65%.

The share of employees (in the rates reduced to integer values) who are managers and (or) employees of organizations engaged in work in the professional field, corresponding to the professional activity for which graduates are preparing (having at least 3 years of work experience in this professional field), in the total number of employees implementing the specialty program, is not less than 10%.



#### **4.2. Material and technical support for the implementation of the educational programme**

The information and technical equipment of the educational process presupposes the existence of conditions for the functioning of the electronic information and educational environment, which includes electronic information resources, electronic educational resources, a set of information technologies, telecommunication technologies and appropriate technological means. ensuring the development of educational programs by students in full.

The main task of information and technical support of the University's educational activities is to increase the efficiency of the educational process based on the development and implementation of a scientifically sound technical policy for the introduction of information and telecommunication technologies in the educational, educational, research and administrative and economic activities of the University.

The University has an extensive modern material and technical base to ensure a high-quality and continuous educational process.

The developed information technology infrastructure of the university allows for all types of training, practical and research work of students.

The university has created and successfully operates a powerful telecommunications infrastructure.

Lecture halls and auditoriums are equipped with modern information and technical training facilities. Specialized offices of departments and laboratories have been created.

A network of videoconferencing and educational information television "Medik-TV" was deployed.

For high-quality management of the educational process, the University has computer classes with multimedia and telecommunication equipment. The level of laboratory equipment required for the implementation of the program is sufficient for conducting the educational process and meets the requirements for the material and technical support of the educational process.

The premises for independent work of students are equipped with computer equipment with the ability to connect to the Internet and provide access to the electronic information and educational environment of the Organization.

It is allowed to replace the equipment with its virtual counterparts.

Special rooms are classrooms for lecture-type classes, seminar-type classes, group and individual consultations, routine monitoring and intermediate certification, as well as rooms for independent work and rooms for storage and preventive maintenance of educational equipment. Special rooms are equipped with specialized furniture and technical training tools that serve to present educational information to a numerous audience.

For conducting lecture-type classes, sets of demonstration equipment and educational and visual aids are offered, providing thematic illustrations corresponding to the sample programs of disciplines (modules), working curricula of disciplines (modules).

The list of material and technical support necessary for the implementation of the educational programme includes laboratories equipped with laboratory equipment, depending on the degree of its complexity.

- specially equipped classrooms provided with multimedia and other learning tools that allow the use of simulation technologies, with standard sets of professional models of laboratory and instrumental research results in an amount that allows students to master the skills and abilities provided for by professional activity, individually;

- computer classes with a software package are equipped with computer equipment with the ability to connect to the Internet and provide access to the electronic information and educational environment of the organization.

The BSMU of the Ministry of Healthcare of the Russian Federation is provided with the necessary set of licensed and freely distributed software, including domestic production (the composition is determined in the working programs of disciplines (modules) and is subject to updating if necessary).

When using printed publications in the educational process, the library fund should be equipped with printed publications at the rate of at least 0.25 copies of each of the publications specified in the work programs of disciplines (modules), practice programs, for one student from among persons simultaneously mastering the relevant discipline (module), undergoing appropriate practice.

The implementation of the educational programme in the specialty 33.05.01 Pharmacy is provided

with access (remote access) for each student, including in the case of e-learning, distance learning technologies, to modern professional databases and information reference systems, the composition of which is determined in the work programmes of disciplines (modules) and is subject to updating (if necessary).

Students with disabilities are provided with printed and (or) electronic educational resources in forms adapted to their health limitations.

The University provides the necessary set of licensed and freely distributed software, including domestic production (the composition is determined in the work programmes of disciplines (modules) and is subject to update if necessary).

When using printed publications in the educational process, the library fund is equipped with printed publications at the rate of at least 0.25 copies of each of the publications specified in the work programmes of disciplines (modules), practice programmes, per one student from among persons simultaneously mastering the corresponding discipline (module) undergoing relevant internships.

The student is provided with access (remote access), including in the case of using e-learning, distance learning technologies, to modern professional databases and information reference systems, the composition of which is determined in the work programmes of disciplines (modules) and is subject to update (if necessary).

Students from among the disabled and persons with disabilities should be provided with printed and (or) electronic educational resources in forms adapted to the limitations of their health.

## **5. REGULATORY AND METHODOLOGICAL SUPPORT FOR ASSESSING THE MASTERING THE EDUCATIONAL PROGRAMME**

In accordance with the Federal State Educational Standard for training in the specialty 33.05.01 Pharmacy, the assessment of the quality of mastering the basic educational programs by students includes ongoing monitoring of academic performance, intermediate and state final certification of students.

### **5.1. Assessment materials to determine the development of competencies**

Regulatory and methodological support of the current monitoring of progress and intermediate certification of students in the Educational professional Programme of Higher Education for the Specialty 33.05.01 Pharmacy (Specialist's programme) is carried out in accordance with the local acts of the FSBEI HE BSMU of the Ministry of Healthcare of Russian Federation.

The following are approved at the FSBEI HE BSMU of the Ministry of Healthcare of Russia:

- Regulations on the current monitoring of progress and intermediate certification of students at the FSBEI HE BSMU of the Ministry of Healthcare of Russia;
- The procedure for crediting the results of mastering by students of academic subjects, courses, disciplines (modules), practice and additional educational programmes at the FSBEI HE BSMU of the Ministry of Healthcare of Russian Federation;
- Regulations on the point-rating system for assessing the quality and management of educational activities of students of the FSBEI HE BSMU of the Ministry of Healthcare of Russia.

Students participating in bilateral and multilateral exchange programmes (students mobility programmes) may be credited with the disciplines they study at another higher educational institution, including a foreign one, in the manner determined by the higher educational institution. In accordance with the requirements of the Federal State Educational Standard of Higher Education for certification of students for the compliance of their personal achievements with the stage-by-stage requirements of the corresponding educational programme, the higher educational institution creates and approves funds of assessment materials for conducting ongoing monitoring of progress and intermediate certification. These funds may include: control questions and standard assignments for practical exercises, laboratory and control works, colloquia, tests and exams; tests and computer testing programs; approximate topics of course works, projects, abstracts, etc., as well as other forms of control, which make it possible to assess the degree of formation of students' competences. Funds of assessment materials are developed by the departments that carry out the educational process in the Specialty Pharmacy and are approved by the profile cyclic methodological commissions and the Coordination Scientific and Methodological Council. To conduct ongoing monitoring of progress and intermediate certification, the departments have created funds for evaluation materials. These funds include: test questions and assignments for practical exercises, credits and exams; situational tasks; a list of practical skills and experience with criteria for their assessment; tests and computer testing programs; topics of essays, etc.,

as well as other forms of control, allowing you to assess the degree of mastering the disciplines of the educational programme.

### **5.2. Assessment materials for the state final certification of graduates**(<https://bashgmu.ru>)

The state final certification of a graduate of a higher educational institution is mandatory and is carried out after mastering the basic educational program in full. The state final certification includes: preparation for passing and passing the state exam in the specialty 33.05.01 "Pharmacy".

## **6. EDUCATION AND UPBRINGING**

### **6.1. PROGRAMME OF EDUCATIONAL WORK WITH STUDENTS**

#### **6.1.1. Normative and legal support of the educational work programme.**

- Constitution of the Russian Federation;
- Constitution of the Republic of Bashkortostan;
- Federal Law " On Education in the Russian Federation " No 273-FZ of December 29, 2012;
- *Federal Law «On Amendments to the Federal Law» On Education in the Russian Federation on the Education of Students» No. 304-FZ of July 31, 2020;*
- "National Security Strategy of the Russian Federation" (approved by Decree of the President of the Russian Federation No. 683 of December 31, 2015, as amended on 06.03.2018);
- "Strategy of the State National Policy of the Russian Federation for the period up to 2025" (approved by Decree of the President of the Russian Federation N 1666 of December 19, 2012);
- "Fundamentals of State Cultural Policy" (approved by Decree of the President of the Russian Federation No. 808 of December 24, 2014);
- "On national goals and strategic objectives of the development of the Russian Federation for the period up to 2024" (approved by Decree of the President of the Russian Federation No. 204 of May 7, 2018);
- "Strategy for the Development of the Information Society in the Russian Federation for 2017-2030" (approved by Decree of the President of the Russian Federation No. 203 of May 9, 2017);
- The main activities of the Government of the Russian Federation for the period up to 2024 (approved by the Chairman of the Government of the Russian Federation Dmitry Medvedev, 29.09.2018);
- "Fundamentals of the State Youth Policy of the Russian Federation for the period up to 2025" (approved by the Decree of the Government of the Russian Federation No. 2403-r of November 29, 2014);
- "Strategy for the Development of education in the Russian Federation for the period up to 2025" (approved by Government Decree No. 996-r of May 29, 2015);
- The concept of the development of volunteerism in the Russian Federation until 2025 (approved by the Decree of the Government of the Russian Federation No. 2950-r of December 27, 2018);
- "The concept of the Federal Target Program for the Development of Education for 2016-2020" (approved by the Decree of the Government of the Russian Federation No. 2765-r of December 29, 2014);
- "On approval of the State program of the Russian Federation "Development of Education" (Decree of the Government of the Russian Federation No. 1642 of December 26, 2017);
- Action plan for the implementation of the "Fundamentals of the State Youth Policy of the Russian Federation for the period up to 2025" (approved by the Decree of the Government of the Russian Federation No. 2403-r of November 29, 2014);
- Methodological recommendations on the creation and activities of student councils in educational organizations (Letter of the Ministry of Education and Science of the Russian Federation No. VK-262/09 and No. VK-264/09 of February 14, 2014);
- "On approval of the Requirements for the structure of the official website of an educational organization in the information and telecommunications network "Internet" and the format of providing information" (Order of the Federal Service for Supervision of Education and Science (Rosobrnadzor) No. 831 of August 14, 2020);
- Programme of educational work with students of the University for the period 2021-2024 academic year is presented on the website

[https://bashgmu.ru/sveden/files/Rabochaya\\_programma\\_vospitaniya\\_i\\_kalendarnyy\\_plan\\_vospitate-lynoy\\_raboty.pdf](https://bashgmu.ru/sveden/files/Rabochaya_programma_vospitaniya_i_kalendarnyy_plan_vospitate-lynoy_raboty.pdf)

The educational mission of the university is to create conditions for the development of professional competence of students – their spiritual, moral and cultural development, civic formation, enrichment of personal and professional experience, creative solutions to social and personal problems, as well as conditions for promoting social and creative self-realization of students, introducing them to a healthy lifestyle.

The following are the priority value orientations in the educational activities of the university:

- the student as a person – in his uniqueness and uniqueness, his world in the unity of external manifestations and internal experiences, his rights and vital interests;
- personal and public welfare – as a key life goal of a citizen of Russia, as a harmonious combination of personal and collectivist principles in the life of students;
- freedom and responsibility, the right to choose – as the most important prerequisite for successful creative activity and the creation of a democratic way of life at the university;
- development – as the main meaning of the professional activity of the teaching staff, contributing to the development of creative individuality of students;
- professional competence and humanistic orientation – as the main conditions for solving professional problems facing the future specialist in the conditions of modernization of society and the education system in the Russian Federation.

#### **6.1.2. Purpose, objectives and expected results of the Education and Upbringing Programme.**

The programme is designed to coordinate and mobilize the efforts of scientific and pedagogical workers, structural units, public associations and students of the university to form the personality of the graduate with a high level of professional and general cultural competencies, a complex of professionally and personally significant qualities, an active socially-oriented life position, with a system of spiritual, civil and moral values.

The purpose of educational work at the BSMU of the Ministry of Healthcare of the Russian Federation is to create conditions that promote the development of social, professional and cultural competence of students, the development of a personality capable of independent life choices, respecting the rights and freedoms of other people, able to carry out constructive social interaction. The achievement of this goal is carried out by solving the following tasks:

1. Formation of a holistic support system for initiative and talented students with leadership skills.
2. Development of innovative potential and support of entrepreneurial activity of young people, creation of mechanisms to stimulate innovative behavior of young people and their participation in the development and implementation of innovative ideas.
3. Preservation and development of the best traditions of the Russian intelligentsia as a unity of education, upbringing and culture.
4. Formation of students' motivation for professional activity, striving for self-development and self-education.
5. Formation of a system of socially significant values among students.
6. Preservation and enhancement of the traditions of the BSMU of the Ministry of Healthcare of the Russian Federation, the formation of a sense of university solidarity and corporatism among students.
7. Modernization of traditional methods, search, development and implementation of new technologies of educational activity, corresponding to the spirit of the times and new social needs and interests of students.
8. Creation of a system of social support and protection of students.

As a result of the implementation of strategic goals and objectives, an effective, developing cultural and educational environment should be formed at the University, harmoniously complementing educational, research activities and allowing:

- to increase the number of young people with the skills and competencies necessary for innovation, capable and ready for continuing education, continuous improvement, retraining and self-study, professional mobility, striving for new things, proficient in foreign languages;

- to increase the scientific, creative, innovative, entrepreneurial, volunteer, sports activity of students;
- to form a high academic corporate culture.

To achieve the goal and effectively solve the tasks set, a set of conditions is necessary to ensure the disclosure of creative abilities and self-realization of the student's personality. These are the following conditions:

- orientation of the content and forms of extracurricular work with students on the activity and activity of the students themselves, on their independence in organizing and conducting events;

- creation and organization of work of creative, sports and scientific collectives, associations of students and teachers by interests;

- activation of student public organizations;

- using the traditions and positive experience accumulated by the BSMU of the Ministry of Health of the Russian Federation for the formation, functioning and development of the system of educational work in modern conditions, their combination with the search for new forms and directions;

- conducting scientific and educational, physical culture, sports and cultural events, organizing leisure activities for students;

- support and development of student mass media;

- study (monitoring) of students' interests, dynamics of value orientations as a basis for planning educational work;

- implementation of a targeted personnel policy, ensuring the professionalism of the organizers of educational / extracurricular work;

- creation of a system of moral and material incentives for teachers and students actively involved in the organization of educational work;

- improvement of planning technology at the level of all subjects of educational activity;

- monitoring the content and effectiveness of educational work, using its results to adjust plans and decisions.

The purpose, objectives and conditions of educational work are realized through its main directions and a set of targeted programs developed as needs and priorities arise, taking into account the competence model of the personality of a graduate of the BSMU of the Ministry of Health of Russia. Expected outcomes:

- involvement of interested subjects of the university community in educational work at the university;

- formation of students' spiritual, social and professional values;

- enrichment of students' personal and social experience;

- updating of the normative and scientific-methodological base of educational work;

- optimization of the activities of administrative structures engaged in educational work;

- improving the forms and methods of educational work; – increasing the degree of involvement of students in the organization and conduct of educational activities;

- improvement of the system of control and evaluation of educational work;

- development and implementation of a system of educational measures to create a full-fledged socio-pedagogical educational environment and conditions for self-realization of students;

- expansion of interaction of subjects of educational work with public authorities and local self-government, international, all-Russian, interregional, regional public associations, key stakeholders;

- development of the traditions of the corporate culture of the university;

- improving the efficiency and quality of implemented activities;

- graduation of competitive specialists with a high level of social, personal and professional competencies;

- optimization of the monitoring process of implemented activities, unification of tools for evaluating their effectiveness and standardization of the university's reporting documentation to the Ministry of Science and Higher Education.

#### 6.1.3 Types, forms and content of activities

#### *Civil and patriotic education of students.*

The system of civic and patriotic education is designed to ensure the purposeful formation of an active position among students, to promote full inclusion in the solution of national tasks, to create conditions for the development of state thinking, the habit of acting in accordance with the national interests of Russia.

#### *Education of the legal culture of students*

Legal education is one of the important conditions for the formation of a legal culture and law-abiding behavior of young people in society, the development of respect for the law and the habit of exact compliance with its requirements based on personal beliefs. Legal education is designed to stimulate the social activity of students, the desire to wage an irreconcilable struggle against antisocial manifestations and offenses.

#### *Spiritual and moral education of students.*

Moral culture characterizes the degree to which students master the moral experience of society, the extent to which this experience is embodied in behavior and in relation to other people. The education of spiritual and moral culture presupposes the introduction of students to universal and national moral values, the need for moral self-improvement/

#### *Formation of a healthy lifestyle*

Physical education in modern conditions is aimed at the formation of a healthy lifestyle among young people, at the formation of personal qualities that will provide a young person with mental stability in an unstable society. Participation in sports competitions forms the personal qualities necessary for effective professional activity.

#### *Aesthetic education of students.*

Aesthetic education is the process of forming the ability to perceive and understand the beautiful in art and life, the development of aesthetic knowledge, the development of inclinations and abilities in the field of art, familiarization with aesthetic values, the development of the ability to aesthetic perception, aesthetic taste for creativity according to the laws of beauty. Aesthetic education involves the formation of young people's beliefs that they are the subjects and creators of their own life, national culture, creators of beauty in the world; the formation of an aesthetic attitude to the chosen profession; fostering the need for culturally organized leisure; creating conditions for young people to realize the importance of aesthetic taste and the desire for self-improvement.

#### *Environmental education of students*

In the conditions of scientific, technical and social progress, environmental education and upbringing are an integral element of the formation of a new person. The process of forming a responsible attitude to nature is an integral part of the general system of education, its current direction. The process of formation of ecological culture is based on the interrelation of global, regional and local history approaches to the disclosure of modern environmental problems. The formation of a careful attitude to nature is based on the unity of intellectual, emotional perception of the environment and practical activities to improve it. Within the framework of the formation of ecological culture, the process of assimilation of basic concepts and scientific facts is underway, on the basis of which the optimal interaction of man and nature is determined, careful attitude to natural territories, understanding of the multilateral values of nature as a source of material and spiritual development of society.

**FEDERAL STATE BUDGETARY EDUCATIONAL INSTITUTION  
OF HIGHER EDUCATION  
"BASHKIR STATE MEDICAL UNIVERSITY" OF THE MINISTRY  
OF HEALTHCARE OF THE RUSSIAN FEDERATION**

APPROVED by

Vice-Rector for educational and social work  
\_\_\_\_\_ A. T. Mustafin

"\_\_" \_\_\_\_\_ 2023

**PROGRAMME OF EDUCATIONAL WORK WITH STUDENTS**

Education level - higher (Specialist's programme)

Specialty 33.05.01 Pharmacy

Qualification – Pharmacist

Ufa-2023

# PASSPORT

## PROGRAMME OF EDUCATIONAL WORK WITH STUDENTS

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<b>Programme name</b>	Programme of educational work with students of the FSBEI HE BSMU of the Ministry of Healthcare of the Russian Federation
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<b>Programme Coordinator</b>	Vice-Rector for Educational and Social Work
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<b>Developer</b>	Dean's Office of the Faculty of Pharmacy
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### Normative and legal support of the educational work programme

- Constitution of the Russian Federation;
- Constitution of the Republic of Bashkortostan;
- Federal Law " On Education in the Russian Federation " No 273-FZ of December 29, 2012;
- *Federal Law «On Amendments to the Federal Law» On Education in the Russian Federation on the Education of Students» No. 304-FZ of July 31, 2020;*
- "National Security Strategy of the Russian Federation" (approved by Decree of the President of the Russian Federation No. 683 of December 31, 2015, as amended on 06.03.2018);
- "Strategy of the State National Policy of the Russian Federation for the period up to 2025" (approved by Decree of the President of the Russian Federation N 1666 of December 19, 2012);
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- "Strategy for the Development of the Information Society in the Russian Federation for 2017-2030" (approved by Decree of the President of the Russian Federation No. 203 of May 9, 2017);
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- The concept of the development of volunteerism in the Russian Federation until 2025 (approved by the Decree of the Government of the Russian Federation No. 2950-r of December 27, 2018);
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- Methodological recommendations on the creation and activities of student councils in educational organizations (Letter of the Ministry of Education and Science of the Russian Federation No. VK-262/09 and No. VK-264/09 of February 14, 2014);
- "On approval of the Requirements for the structure of the official website of an educational organization in the information and telecommunications network "Internet" and the format of providing information" (Order



of the Federal Service for Supervision of Education and Science (Rosobrnadzor) No. 831 of August 14, 2020);

<i>Application field</i>	Educational and socio-cultural space of the BSMU of the Ministry of Healthcare of the Russian Federation, educational and nurturing environments in their unity and interrelation
<i>The Goal</i>	The program defines a set of key characteristics of the educational work system of the BSMU of the Ministry of Healthcare of the Russian Federation (principles, methodological approaches, purpose, objectives, directions, forms, means and methods of education, planned results, etc.) to assist subjects of educational relations in the organization of the educational environment
<i>Objectives</i>	<ul style="list-style-type: none"> <li>– determination of the main directions of educational work;</li> <li>– systematization of modern methods, tools, technologies, mechanisms and effective measures of educational work;</li> <li>– development and implementation of a system of educational measures to create a full-fledged socio-pedagogical educational environment and conditions for self-realization of students</li> </ul>
<i>Terms of implementation</i>	it is being developed for the period of implementation of the educational program
<i>Expected outcomes</i>	<ul style="list-style-type: none"> <li>– involvement of interested members of the university community in educational work at the university;</li> <li>– formation of students' spiritual, social and professional values;</li> <li>– enrichment of students' personal and social experience;</li> <li>– updating of the normative and scientific–methodological base of educational work;</li> <li>– optimization of the activities of administrative structures engaged in educational work;</li> <li>– improving the forms and methods of educational work; – increasing the degree of involvement of students in the organization and conduct of educational activities;</li> <li>– improvement of the system of control and evaluation of educational work;</li> <li>– development and implementation of a system of educational measures to create a full-fledged socio-pedagogical educational environment and conditions for self-realization of students</li> <li>– expansion of interaction of subjects of educational work with public authorities and local self-government, international, all-Russian, interregional, regional public associations, key stakeholders;</li> <li>– development of the traditions of the corporate culture of the university;</li> <li>– improving the efficiency and quality of implemented activities;</li> <li>– graduation of competitive specialists with a high level of socio–personal and professional competencies;</li> <li>– optimization of the monitoring process of implemented activities, unification of tools for evaluating their effectiveness and standardization of the university's reporting documentation to the Ministry of Science and Higher Education.</li> </ul>

## **1. General provision**

### **1.1. Goals and objectives of educational work with students**

The purpose of educational work at the BSMU of the Ministry of Healthcare of the Russian Federation is to create conditions that promote the development of social, professional and cultural competence of students, the development of a personality capable of independent life choices, respecting the rights and freedoms of other people, able to carry out constructive social interaction.

The achievement of this goal will be carried out by solving the following tasks:

1. Formation of a holistic support system for initiative and talented students with leadership skills.
2. Development of innovative potential and support of entrepreneurial activity of young people, creation of mechanisms to stimulate innovative behavior of young people and their participation in the development and implementation of innovative ideas.
3. Preservation and development of the best traditions of the Russian intelligentsia as a unity of education, upbringing and culture.
4. Formation of students' motivation for professional activity, striving for self-development and self-education.
5. Formation of a system of socially significant values among students.
6. Preservation and enhancement of the traditions of the BSMU of the Ministry of Healthcare of the Russian Federation, the formation of a sense of university solidarity and corporatism among students.
7. Modernization of traditional methods, search, development and implementation of new technologies of educational activities that correspond to the spirit of the times and new social needs and interests of students.
8. Creation of a system of social support and protection of students.

As a result of the implementation of strategic goals and objectives, an effective, developing cultural and educational environment should be formed at the University, harmoniously complementing educational, research activities and allowing:

- to increase the number of young people with the skills and competencies necessary for innovation, capable and ready for continuing education, continuous improvement, retraining and self-study, professional mobility, striving for new things, proficient in foreign languages;
- to increase the scientific, creative, innovative, entrepreneurial, volunteer, sports activity of students;
- to form a high academic corporate culture.

To achieve the goal and effectively solve the tasks set, a set of conditions is necessary to ensure the disclosure of creative abilities and self-realization of the student's personality. These are the following conditions:

- orientation of the content and forms of extracurricular work with students on the activity and activity of the students themselves, on the manifestation of their independence in the organization and conduct of events;
- creation and organization of work of creative, sports and scientific collectives, associations of students and teachers by interests;
- activation of student public organizations;
- the use of traditions and positive experience for the formation, functioning and development of the system of educational work in modern conditions, their combination with the search for new forms and directions;
- conducting scientific and educational, physical culture, sports and cultural events, organizing leisure activities for students;
- support and development of student media;
- study (monitoring) of students' interests, dynamics of value orientations as a basis for planning educational work;
- implementation of a targeted personnel policy, ensuring the professionalism of the organizers of educational / extracurricular work;
- creation of a system of moral and material incentives for teachers and students actively involved in the organization of educational work;
- improvement of planning technology at the level of all subjects of educational activity;
- monitoring the content and effectiveness of educational work, using its results to adjust plans and decisions.

The purpose, objectives and conditions of educational work are realized through its main directions and a set of targeted programs developed as needs and priorities arise, taking into account the competence model of the personality of a graduate of the BSMU of the Ministry of Healthcare of Russia.

### **1.2. The main directions and activities of students in the educational system of the BSMU of the Ministry of Healthcare of the Russian Federation**

1. Civil and patriotic education of students.
2. Legal education of students.
3. Spiritual and moral education of students.
4. Physical education and the formation of a healthy lifestyle.
5. Aesthetic education of students.
6. Environmental education of students.

Priority activities of students in the educational system of the BSMU of the Ministry of Healthcare of the Russian Federation:

1. Project and business activities.
2. Volunteer (voluntary) activity.
3. Research activities of students.
4. Activities of student self-government bodies.
5. Involvement of students in career guidance activities.
6. Educational work with foreign students.
7. Activities with students with special educational needs.

The directions and types of activities of students in the educational system of the BSMU of the Ministry of Healthcare of the Russian Federation are implemented through the introduction of an educational component in the academic disciplines of the educational program (item 2) and the organization of events and events of an educational orientation in extracurricular activities (Calendar plan of educational work for the duration of the educational programme).

### **1.2. Forms and methods of educational work**

All the variety of methods of educational work is represented by five groups:

1. *Methods of formation of personality consciousness*: story, conversation, persuasion, lecture, example, explanation, discussion, analysis of pedagogical educating situations, etc.
2. *Methods of organizing activities and forming behavioral experience* – ways and means of influencing the subject–practical sphere of personality in order to identify, consolidate and form positive ways and forms of behavior and moral motivation of pupils in the experience. In this case, the following are used: assignment, public opinion, pedagogical requirement, assignment, training, creation of educating situations, training, exercise, etc.
3. *Methods of motivation of activity and behavior* – ways of influencing the motivational sphere of personality, aimed at encouraging pupils to improve their behavior, the development of moral and positive motivation of behavior. The following methods are used: approval, encouragement of social activity, censure, creating situations of success, creating situations for emotional and moral experiences, competition, etc.
4. *Methods of self-education* - methods of influencing the sphere of self-regulation aimed at consciously changing the pupil's personality in accordance with the requirements of society and personal development plan. The methods of self-education include reflection and the main methods of forming consciousness, behavior and its stimulation with the indication of "self": self-observation, self-analysis, self-report, etc.
5. *Methods of control and self-control in education* - ways and means of obtaining information about the effectiveness of educational influences and interaction. These methods are aimed at identifying the effectiveness of pedagogical activity and education in general. The following methods are used: pedagogical observation of; conversations aimed at revealing upbringing; surveys (questionnaire, oral, etc.); analysis of the results of socially useful activities, the activities of student self-government bodies; creation of pedagogical situations for studying student behavior.

Forms of educational work with students:

-informative: conferences, round tables, festivals, contests, subject weeks, master classes, readings, meetings with interesting people, etc.;

-interactive: group discussions, brainstorming, role-playing and business game, training, project defense, etc.;

-leisure: holidays, concerts, festivals, competitions, theme nights, visits to cultural institutions;

-management and self-government: asset school, work in public associations, social project competition, promotions, flash mobs, debate club, etc.

These forms and methods of educational work are used by teachers and employees of the BSMU of the Ministry of Healthcare of the Russian Federation both in the implementation of academic disciplines and practices within the framework of the educational programme, and in the organization and conduct of events and events of extracurricular work.

## **2. 2. Matrix of implementation of educational work in the Specialist's programme**

№	Academic discipline	Academic hours	Direction of educational work	Form of control	Competencies
1	2	3	4	6	7
1.	Information technologies in pharmaceutical research	108	Civic and patriotic education of students	credit	GPC-2 (GPC-2.1, GPC-2.3), PC-1 (PC-1.3)
2.	Culturology	72	Civic and patriotic education of students	credit	UC-5 (UC-5.2, UC-5.3, UC-5.4)
3.	Fundamentals of pharmaceutical ecology	144	Civic and patriotic education of students; Legal education of students	credit	UC-1 (1.1-1.4), UC-2 (2.1, 2.2, 2.5), UC-4 (4.1-4.3), UC-6 (6.1), GPC-1 (1.1, 1.2), GPC-2 (2.1), GPC-6 (6.1-6.3), PC -1 (1.1)
4.	Project and innovation management	144	Spiritual and moral education of students	credit	UC-2 (UC-2.1, UC-2.2, UC-2.3, UC-2.4, UC-2.5), GPC-5 (GPC-5.1, GPC-5.2)

The forms of certification of students in the disciplines are: certification in the discipline in the form provided by the curriculum (exam, credit), and in accordance with the assessment materials established in the work programmes of these disciplines