



Ministry of Healthcare of the Russian Federation

**Federal State Budget Educational Establishment of Higher Education  
«North-Western State Medical University named after I.I.Mechnikov»  
under the Ministry of Healthcare of the Russian Federation**

(FSBEE HE NWSMU n.a.I.I.Mechnikov under the Ministry of Healthcare of Russia)

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**MAJOR PROFESSIONAL EDUCATIONAL PROGRAMME OF HIGHER EDUCATION –  
SPECIALTY PROGRAMME**

**Specialty 31.05.01 General Medicine**

**Graduate Qualification: Medical Doctor**

**Full-time form of education**

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on development of the major professional educational programme of higher education – Specialty programme 31.05.01 General Medicine

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## **1. GENERAL PROVISIONS**

### **1.1. The concept of the basic professional educational programme of higher education - specialty programmes**

The major professional educational programme of higher education, a specialty programme in the specialty 31.05.01 General Medicine (hereinafter referred to as the specialty programme) for foreign students, upon completion of which students are qualified as a medical doctors, is a set of interrelated documents developed and approved by the Federal State Budget Educational Establishment of Higher Education «North-Western State Medical University named after I.I. Mechnikov» under the Ministry of Healthcare of Russia (hereinafter referred to as the University), taking into account the requirements of the regional labour market, the requirements of federal executive authorities and relevant industry requirements based on the Federal State Educational Standard of Higher Education (GEF HE) in this specialty. The specialty programme regulates the goals, expected results, content, conditions and technologies for implementing the educational process, assessing the quality of graduate training in the specialty and includes a general description of education, curriculum, calendar schedule, work programmes of disciplines (modules), practical training programmes, programmes for State Final Certification, including assessment materials, a matrix of formation of competencies, levels of mastery of competencies by graduates and teaching materials. According to the specialty programme, educational activities are carried out in the state language of the Russian Federation, as well as in a foreign language (English), in accordance with the local regulations of the University

### **1.2. Normative and methodological documents for the development of a specialty programme**

The regulatory framework for the development of a specialty programme includes the following documents:

- Federal Law of the Russian Federation dated December 29, 2012 No. 273-ФЗ “On Education in the Russian Federation”;

- The Federal State Educational Standard of Higher Education in the specialty 05.31.01 General Medicine, approved by order of the Ministry of Education and Science of the Russian Federation of 02.09.2016. No. 95;

- The professional standard “Medical doctor (district general practitioner)”, approved by order of the Ministry of Labor and Social Protection of the Russian Federation of March 21, 2017. No.293n;

- The procedure for the organization and implementation of educational activities in higher education educational programmes - undergraduate /M.B./ programmes, Specialty programmes, Master's programmes (approved by order of the Ministry of Education and Science of the Russian Federation dated 05.04.2017 No.301);

- The procedure for conducting State Final Certification on higher educational programmes - undergraduate programmes /M.B./, Specialty programmes and Master's programmes, approved by order of the Ministry of Education and Science of Russia dated June 29, 2015 No. 636;

- Regulation on the practice of students mastering the basic professional educational programmes of higher education, approved by the order of the Ministry of Education and Science of Russia of November 27, 2015 No. 1383;

- The procedure for organizing and conducting practical training of students in professional educational programmes of medical education, pharmaceutical education (approved by order of the Ministry of Health of the Russian Federation dated 03.09.2013 No. 620n);

- Lists of specialties and areas of higher education training (approved by order of the Ministry of Education and Science of the Russian Federation of September 12, 2013 No. 1061);

- The Charter of the Federal State Budget Educational Establishment of Higher Education «North-Western State Medical University named after I.I. Mechnikov» under the Ministry of

### **1.3. General characteristics of the specialty programme**

#### **1.3.1. Social significance, purpose and objectives of the specialty programme**

The educational programme for foreign students is aimed at preparing foreign citizens to carry out professional activities abroad and, as a result, teaching individual disciplines, conducting individual practices, as well as conducting State Final Certification of graduates and is carried out using the English language.

The social significance of the specialty programme in the specialty 31.05.01 General Medicine consists includes creating the conditions for the training of highly qualified medical personnel who are able, effectively, using fundamental and applied knowledge and innovative technologies, to carry out creative medical activities in the field of creating a comfortable environment for human life, the formation of social and personal qualities of students: determination, organization, diligence, responsibility, civic consciousness, communicativeness, tolerance, as well as improving their overall culture in accordance with the changing needs of society.

The purpose of the specialty programme is the training of personnel with higher education, with personal qualities, as well as formed by general cultural, general professional and professional competencies in accordance with the requirements of the Federal State Educational Standard on the specialty 31.05.01 General Medicine.

Goals of the Specialty Programme:

- to ensure the education of a person who owns a culture of thinking, is aware of the social significance of their future profession, highly motivated to carry out professional activities;
- to carry out personal training in basic natural laws and phenomena necessary in professional activities;
- to give professional knowledge and develop skills to apply them for solving professional problems in the framework of future activities;
- to teach the basic modern methods, ways and means of obtaining, storing, processing information and its management;
- to inculcate the desire of the individual for self-development and improvement of their skills;
- to formulate a sustainable motivation for professional activity in accordance with the types of professional activity provided for by the Federal State Educational Standard;
- to develop the ability to find organizational and managerial decisions in unusual situations and the willingness to bear responsibility for them;
- to increase the efficiency of the use of scientific and technological achievements, stimulate innovation in the health sector.

#### **1.3.2. Duration of studies at the specialty programme**

The term for obtaining a specialty programme in full-time education, including holidays provided after passing the State Final Certification, regardless of the educational technologies used, is 6 years. When studying according to an individual curriculum, the term for obtaining education in the specialty programme is to be set by the University, but shall not make more than the period established for full-time education

For persons limited abilities the period of mastering a specialty programme according to an individual curriculum can be increased by no more than 1 year compared with the period of mastering a specialty programme for full-time education.

When implementing the specialty program, the University shall have the right to apply distance educational technologies. When teaching people with disabilities, distance educational

technologies shall be provided with the possibility of receiving and transmitting information in accessible forms. Implementation of the specialty programme is possible using a network form.

### 1.3.3. Labour-intensive characteristics of the programme

The Labour-intensive characteristics of the specialty programme in full-time education, implemented over 6 years, is 360 credit units (hereinafter referred to as c.u.), regardless of the educational technologies used, or the form of the implementation of the specialty programme—using a network form or according to an individual curriculum including accelerated learning

The Labour-intensive characteristics of the specialty programme in full-time education, implemented in one academic year, is 60 c.u. When implemented according to an individual curriculum, including accelerated learning, regardless of the form of training, the complexity of the specialty programme shall not be more than 75 c.u.

### 1.3.4. Information on the structure of the specialty programme

Table 1

Information on the structure of the specialty programme are presented in the Table 1.

I. General structure of the Programme		Unit of measurement	Value indicator
1		2	3
Block 1	Disciplines (modules), total	credit units	324
	Basic part, total	credit units	288
	Variable part, total	credit units	36
Block 2	Practices, including scientific and research projects (if applicable), in total	credit units	33
	Basic part (if applicable), total	credit units	33
	Variable part, total	credit units	-
Block 3	State Final Certification, total	credit units	3
	Basic part, total	credit units	3
Total programme volume, in credit units		credit units	credit units
II. Distribution volume of disciplines for optional disciplines and physical training and sports			
Volume of disciplines (Modules) on physical training and sports, implemented in the framework of the Basic Part of Block 1 (discipline modules) of the full-time educational programme		credit units	2
The volume of elective disciplines (modules) in physical education and sport		academic hours	328
Providing students with the opportunity to master disciplines (modules) by choice, in the amount provided by the Federal State Educational Standard from the volume of the variable part of Block 1 “Disciplines (modules)”		credit units	13
The volume of disciplines (modules) by choice, from the volume of the variable part of Block 1 “Disciplines (modules)”		%	36,1
The number of hours allotted for lecture-type classes as a whole for Block 1 “Disciplines (modules)” in accordance with the Federal State Educational Standard		academic hours	1834
The percentage of the hours allotted for lecture-type classes as a whole for Block 1 “Disciplines (modules)” in the total number of classroom hours allocated for the implementation of this Block		%	25,4
III. The distribution of the workload by year			
Volume of the studies during 1 <sup>st</sup> year		credit units	60

I. General structure of the Programme	Unit of measurement	Value indicator
1	2	3
Volume of the studies during 2 <sup>nd</sup> year	credit units	60
Volume of the studies during 3 <sup>rd</sup> year	credit units	60
Volume of the studies during 4 <sup>th</sup> year	credit units	60
Volume of the studies during 5 <sup>th</sup> year	credit units	60
Volume of the studies during 6 <sup>th</sup> year	credit units	60
IV. Structure of the educational programme with taking into account e-learning and distance learning technologies		
The total labour-intensive characteristics of disciplines, modules, parts of the educational programme, implemented exclusively with the use of e-learning, distance learning technologies	credit units	0
The percentage of the Labour-intensive characteristics of the disciplines modules, parts of the educational program, implemented exclusively with the use of e-learning, distance learning technologies in the total complexity of the educational programme	%	0

V. Practical activities	Unit of measurement	Value indicator
1	2	3
Types of educational practice:	Name of practice type(s)	The practice of obtaining primary professional skills
Types of educational practice:	Name of practice type(s)	Clinical practice
Methods of conducting educational practice:	Name of the method(s) of educational practice	Stationary
Types of Work experience practice:	Name of types of work experience practice	The practice of obtaining professional skills and professional experience
Types of Work experience practice:	Name of types of work experience practice	Clinical practice
Methods of performing Work experience practice	Name of methods of work experience practice	Stationary / mobile

### 1.3.5. Information on the features of the implementation of the specialty programme

Table 2

Indicator Name	Unit of measurement/Value	Value indicator
Using the network form of implementation of the main educational programme	Yes/No	No
Using e-learning	Yes/No	No
The use of distance learning technologies	Yes/No	No
Application of the modular principle of presenting the content of the main educational programme and compiling the curricula	Yes/No	No

### 1.3.6. Entry Requirements

Applicants must have a secondary (complete) general education / secondary vocational education / higher education. Entrance examinations in the specialty 31.05.01 General Medicine is carried out in accordance with the Federal Regulations specified in the annual University Admission Rules for foreign citizens and persons with destitute citizenship.

## 2. CHARACTERISTICS OF PROFESSIONAL ACTIVITIES OF THE GRADUATE

### 2.1. Field of professional activity of the graduate

Field of professional activity in the specialty 31.05.01 General medicine in accordance with the Federal State Educational Standard of Healthcare includes protecting the health of citizens by providing medical care in accordance with established requirements and standards in the field of healthcare.

Table 3

Correlation between Major Professional Educational Programme of Higher Education and Professional Standards

Specialty	Profile (Specialisation) of training	Skill level number	Code and name of the selected Professional Standard (one or more)
31.05.01 Лечебное дело	-	7	02.009 Профессиональный стандарт «Врач-лечебник (врач-терапевт участковый)», утвержденный приказом Министерства труда и социальной защиты Российской Федерации от 21 марта 2017г. № 293н

### 2.2. Objects of professional activity of the graduate

The objects of professional activity of the graduates, having completed the Programme of Specialty, are as follows:

- individuals (patients);
- population;
- a set of tools and technologies aimed at creating conditions for protecting health of citizens.

### 2.3. Types of professional activity of a graduate

Types of professional activity of a graduates, that the graduates, who have completed the MD course, are trained for, are:

- medical;
- organizational and management.

### 2.4. Tasks of professional activity of a graduate

Tasks of professional activity of a graduate in accordance with the types of professional activity are:

**Medical activity:**

- prevention of the occurrence of diseases among the population through preventive and anti-epidemic measures;
- conducting preventive medical examinations, dispensary observation;
- collection and medical-statistical analysis of information on health indicators of the population of various age and gender groups characterizing their health status;
- diagnosis of diseases and pathological conditions of patients;
- diagnosis of emergency conditions;



- pregnancy diagnosis;
  - conducting an examination of temporary disability and participation in other types of medical examination;
  - providing primary medical health care on an outpatient basis and in an inpatient setting;
  - providing primary medical care in case of sudden acute diseases, conditions, exacerbation of chronic diseases that are not accompanied by a threat to the patient's life and do not require emergency medical care;
  - participation in the provision of emergency medical care in conditions requiring urgent medical intervention;
  - provision of medical assistance in emergency situations, including participation in medical evacuation;
  - participation in medical rehabilitation and spa treatment;
  - formation of the population's, patients' and members of their families' motivation aimed at maintaining and strengthening their health and the health of others;
  - teaching patients the basic hygiene measures of a health-improving nature that contribute to the prevention of diseases and promote health;
- Organisational and Management:**
- application of the basic principles of the organization of medical care in medical organizations and their structural divisions;
  - creation in medical organizations favorable conditions for the stay of patients and labour activities of medical personnel;
  - maintaining medical records in medical organizations;
  - organization of medical examinations;
  - participation in the organization of the assessment of the quality of medical care for patients;
  - compliance with basic information security requirements;

Table 4

Correlation between the professional tasks of Federal State Educational Standard of Higher Education and Labour functions of Professional Standard

professional tasks of Federal State Educational Standard of Higher Education	Professional Standards requirements	Conclusions
Professional tasks	Generalized Labour functions (OTΦ), Labour functions (TΦ)	
- prevention of the occurrence of diseases among the population through preventive and anti-epidemic measures;	OTΦ A Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called TΦ A/05.7 Carrying out and monitoring the effectiveness of measures to prevent and promote a healthy lifestyle and sanitary-hygienic education of the population	The professional task is fully consistent to OTΦ A, TΦ A/05.7
- conducting preventive medical examinations, dispensary observation;	OTΦ A Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called TΦ A/05.7 Carrying out and monitoring the effectiveness of measures to prevent and promote a healthy lifestyle and sanitary-hygienic education of the population	The professional task is fully consistent to OTΦ A, TΦ A/05.7
- collection and medical-statistical	OTΦ A Providing primary health care to the adult population on an outpatient basis, not providing for	The professional

professional tasks of Federal State Educational Standard of Higher Education	Professional Standards requirements	Conclusions
analysis of information on health indicators of the population of various age and gender groups characterizing their health status;	24hours medical supervision and treatment, including at home when a health worker is called ТФ А/06.7 Maintaining medical documentation and organizing the activities of nursing staff	task is fully consistent to ОТФ А, ТФ А/06.7
- diagnosis of diseases and pathological conditions of patients;	ОТФ А Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called ТФ А/02.7 Examination of a patient to determine a diagnosis	The professional task is fully consistent to ОТФ А, ТФ А/02.7
- diagnosis of emergency conditions;	ОТФ А Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called ТФ А/01.7 Providing medical care to the patient in urgent forms or in case of an emergency ТФ А/02.7 Examination of a patient to determine a diagnosis	The professional task is fully solved if ОТФ А, ТФ А/01.7, ТФ А/02.07 are performed
- pregnancy diagnosis;	ОТФ А Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called ТФ А/02.7 Examination of a patient to determine a diagnosis ТФ А/03.7 Prescribing treatment and monitoring its effectiveness and safety	The professional task is fully solved if ОТФ А, ТФ А/02.07, ТФ А/03.07 are performed
- conducting an examination of temporary disability and participation in other types of medical examination;	ОТФ А Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called ТФ А/04.7 Implementation and monitoring of the effectiveness of medical rehabilitation of the patient, including the implementation of individual rehabilitation or habilitation programmes for people with disabilities, assessment of the patient's ability to carry out labour activities	The professional task is fully consistent to ОТФ А, ТФ А/04.7
- providing primary medical health care on an outpatient basis and in an inpatient setting;	ОТФ А Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called ТФ А/01.7 Providing medical care to the patient in urgent forms or in case of an emergency ТФ А/02.7 Examination of a patient to determine a diagnosis ТФ А/03.7 Prescribing treatment and monitoring its effectiveness and safety	The professional task is fully solved if ОТФ А, ТФ А/01.7, ТФ А/02.07, ТФ А/03.07, ТФ А/04.07, ТФ А/05.07, ТФ А/06.7 are

professional tasks of Federal State Educational Standard of Higher Education	Professional Standards requirements	Conclusions
	<p>TФ A/04.7 Implementation and monitoring of the effectiveness of medical rehabilitation of the patient, including the implementation of individual rehabilitation or habilitation programmes for people with disabilities, assessment of the patient's ability to carry out labour activities</p> <p>TФ A/05.7 Carrying out and monitoring the effectiveness of measures to prevent and promote a healthy lifestyle and sanitary-hygienic education of the population</p> <p>TФ A/06.7 Maintaining medical documentation and organizing the activities of nursing staff</p>	performed
<p>- providing primary medical care in case of sudden acute diseases, conditions, exacerbation of chronic diseases that are not accompanied by a threat to the patient's life and do not require emergency medical care;</p>	<p>OTФ A Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called</p> <p>TФ A/01.7 Providing medical care to the patient in urgent forms or in case of an emergency</p> <p>TФ A/02.7 Examination of a patient to determine a diagnosis</p> <p>TФ A/03.7 Prescribing treatment and monitoring its effectiveness and safety</p> <p>TФ A/04.7 Implementation and monitoring of the effectiveness of medical rehabilitation of the patient, including the implementation of individual rehabilitation or habilitation programmes for people with disabilities, assessment of the patient's ability to carry out labour activities</p> <p>TФ A/05.7 Carrying out and monitoring the effectiveness of measures to prevent and promote a healthy lifestyle and sanitary-hygienic education of the population</p> <p>TФ A/06.7 Maintaining medical documentation and organizing the activities of nursing staff</p>	<p>The professional task is fully solved if OTФ A, TФ A/01.7, TФ A/02.07, TФ A/03.07, TФ A/04.07, TФ A/05.07, TФ A/06.7 are performed</p>
<p>- participation in the provision of emergency medical care in conditions requiring urgent medical intervention;</p>	<p>OTФ A Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called</p> <p>TФ A/01.7 Providing medical care to the patient in urgent forms or in case of an emergency</p> <p>TФ A/02.7 Examination of a patient to determine a diagnosis</p> <p>TФ A/03.7 Prescribing treatment and monitoring its effectiveness and safety</p> <p>TФ A/04.7 Implementation and monitoring of the effectiveness of medical rehabilitation of the patient, including the implementation of individual rehabilitation or habilitation programmes for people</p>	<p>The professional task is fully solved if OTФ A, TФ A/01.7, TФ A/02.07, TФ A/03.07, TФ A/04.07, TФ A/05.07, TФ A/06.7 are performed</p>

professional tasks of Federal State Educational Standard of Higher Education	Professional Standards requirements	Conclusions
	<p>with disabilities, assessment of the patient's ability to carry out labour activities</p> <p>TФ A/05.7 Carrying out and monitoring the effectiveness of measures to prevent and promote a healthy lifestyle and sanitary-hygienic education of the population</p> <p>TФ A/06.7 Maintaining medical documentation and organizing the activities of nursing staff</p>	
<p>- provision of medical assistance in emergency situations, including participation in medical evacuation;</p>	<p>OTФ A Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called</p> <p>TФ A/01.7 Providing medical care to the patient in urgent forms or in case of an emergency</p>	<p>The professional task is fully consistent to OTФ A, TФ A/01.7</p>
<p>- participation in medical rehabilitation and spa treatment;</p>	<p>OTФ A Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called</p> <p>TФ A/04.7 Implementation and monitoring of the effectiveness of medical rehabilitation of the patient, including the implementation of individual rehabilitation or habilitation programmes for people with disabilities, assessment of the patient's ability to carry out labour activities</p>	<p>The professional task is fully consistent to OTФ A, TФ A/04.7</p>
<p>- formation of the population's, patients' and members of their families' motivation aimed at maintaining and strengthening their health and the health of others;</p>	<p>OTФ A Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called</p> <p>TФ A/05.7 Carrying out and monitoring the effectiveness of measures to prevent and promote a healthy lifestyle and sanitary-hygienic education of the population</p>	<p>The professional task is fully consistent to OTФ A, TФ A/05.7</p>
<p>- teaching patients the basic hygiene measures of a health-improving nature that contribute to the prevention of diseases and promote health;</p>	<p>OTФ A Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called</p> <p>TФ A/05.7 Carrying out and monitoring the effectiveness of measures to prevent and promote a healthy lifestyle and sanitary-hygienic education of the population</p>	<p>The professional task is fully consistent to OTФ A, TФ A/05.7</p>
<p>- application of the basic principles of the organization of medical care in medical organizations and their structural divisions;</p>	<p>OTФ A Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called</p> <p>TФ A/01.7 Providing medical care to the patient in urgent forms or in case of an emergency</p> <p>TФ A/02.7 Examination of a patient to determine a diagnosis</p>	<p>The professional task is fully solved if OTФ A, TФ A/01.7, TФ A/02.07, TФ A/03.07, TФ A/04.07,</p>

professional tasks of Federal State Educational Standard of Higher Education	Professional Standards requirements	Conclusions
	<p>TФ A/03.7 Prescribing treatment and monitoring its effectiveness and safety</p> <p>TФ A/04.7 Implementation and monitoring of the effectiveness of medical rehabilitation of the patient, including the implementation of individual rehabilitation or habilitation programmes for people with disabilities, assessment of the patient's ability to carry out labour activities</p> <p>TФ A/05.7 Carrying out and monitoring the effectiveness of measures to prevent and promote a healthy lifestyle and sanitary-hygienic education of the population</p> <p>TФ A/06.7 Maintaining medical documentation and organizing the activities of nursing staff</p>	TФ A/05.07, TФ A/06.7 are performed
- creation in medical organizations favorable conditions for the stay of patients and labour activities of medical personnel;	<p>OTФ A Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called</p> <p>TФ A/06.7 Maintaining medical documentation and organizing the activities of nursing staff</p>	The professional task is fully consistent to OTФ A, TФ A/06.7
- maintaining medical records in medical organizations;	<p>OTФ A Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called</p> <p>TФ A/06.7 Maintaining medical documentation and organizing the activities of nursing staff</p>	The professional task is fully consistent to OTФ A, TФ A/06.7
- organization of medical examinations;	<p>OTФ A Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called</p> <p>TФ A/04.7 Implementation and monitoring of the effectiveness of medical rehabilitation of the patient, including the implementation of individual rehabilitation or habilitation programmes for people with disabilities, assessment of the patient's ability to carry out labour activities</p>	The professional task is fully consistent to OTФ A, TФ A/04.7
- participation in the organization of the assessment of the quality of medical care for patients;	<p>OTФ A Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called</p> <p>TФ A/06.7 Maintaining medical documentation and organizing the activities of nursing staff</p>	The professional task is fully consistent to OTФ A, TФ A/06.7
- compliance with basic information security requirements	<p>OTФ A Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called</p> <p>TФ A/06.7 Maintaining medical documentation and organizing the activities of nursing staff</p>	The professional task is fully consistent to OTФ A, TФ A/06.7

Conclusion: According to the analysis, for the selected type of activity, there are no missing professional tasks of the Federal State Educational Standard of Higher Education, according to the requirements of the functions from the corresponding professional standard

### **3. COMPETENCES OF THE GRADUATE AS A COMPLETE EXPECTED RESULTS OF EDUCATION FOR COMPLETION OF THE SPECIALTY PROGRAMME**

As a result of mastering the specialty programme, the graduate must have formed general cultural, professional and professional competencies.

A graduate who has mastered the specialty programme should have the following *general cultural competencies* (OK):

- ability to abstract thinking, analysis, synthesis (OK-1);
- ability to use the basics of philosophical knowledge to form a worldview position (OK-2);
- ability to analyze the main stages and patterns of the historical development of society for the formation of a civic position (OK-3);
- ability to act in non-standard situations, bear social and ethical responsibility for decisions made (OK-4);
- readiness for self-development, self-realization, self-education, use of creative potential (OK-5);
- ability to use methods and means of physical education to ensure full social and professional activity (OK-6);
- readiness to use first aid techniques, methods of protection in emergency situations (OK-7);
- readiness to work in a team, tolerantly perceive social, ethnic, religious and cultural differences (OK-8).

A graduate who has mastered the specialty programme must have the following *general professional competencies* (ОПК):

- readiness to solve the standard tasks of professional activity using information, bibliographic resources, biomedical terminology, information and communication technologies, taking into account the basic requirements of information security (ОПК -1);
- readiness for communication in oral and written forms in Russian and foreign languages to solve the problems of professional activity (ОПК -2);
- ability to use the basics of economic and legal knowledge in professional activities (ОПК-3);
- ability and readiness to implement ethical and deontological principles in professional activities (ОПК -4);
- ability and readiness to analyze the results of their own activities to prevent professional errors (ОПК -5);
- readiness to keep medical records (ОПК -6);
- readiness to use the basic physicochemical, mathematical and other natural science concepts and methods in solving professional problems (ОПК -7);
- readiness for medical use of drugs and other substances and their combinations in solving professional problems (ОПК -8);
- ability to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems (ОПК -9);
- readiness to ensure the organization of patient care and the provision of primary pre-medical health care (ОПК -10);
- readiness for the use of medical devices provided for by the medical care procedures (ОПК -11).

A graduate who has mastered the specialty programme must have the following *professional competencies* (ПК):

#### **Medical activity:**

- ability and readiness to implement a set of measures aimed at maintaining and strengthening health and including the formation of a healthy lifestyle, preventing the onset and (or) spread of

diseases, their early diagnosis, identifying the causes and conditions of their occurrence and development, as well as aimed at eliminating harmful effects on human health of environmental factors (ПК-1);

- ability and readiness to conduct preventive medical examinations, clinical examination and the implementation of clinical supervision (ПК-2);

- ability and readiness to conduct anti-epidemic measures, organize the protection of the population in the foci of particularly dangerous infections, with the deterioration of the radiation situation, natural disasters and other emergencies (ПК-3);

- ability and readiness to use socio-hygienic methods of collecting and medical and statistical analysis of information on indicators of public health (ПК-4);

- readiness to collect and analyze patient complaints, his or her medical history, examination results, laboratory, instrumental, pathological and anatomical and other studies in order to recognize the condition or establish the presence or absence of a disease (ПК-5);

- ability to determine the patient's main pathological conditions, symptoms, disease syndromes, nosological forms in accordance with the International Statistical Classification of Diseases and Health Problems, X revision (ПК-6);

- readiness to conduct an examination of temporary incapacity for work, to participate in a medical and social examination, to state the biological death of a person (ПК-7);

- ability to determine management tactics for patients with various nosological forms (ПК-8);

- readiness to manage and treat patients with various nosological forms on an outpatient basis and in an inpatient setting (ПК-9);

- readiness to provide medical care for sudden acute diseases, conditions, exacerbation of chronic diseases that are not accompanied by a threat to the patient's life and do not require emergency medical care (ПК-10);

- readiness to participate in the provision of emergency medical care in conditions requiring urgent medical intervention (ПК-11);

- readiness for physiological pregnancy, childbirth (ПК-12);

- readiness to participate in the provision of medical care in emergency situations, including participation in medical evacuation (ПК-13);

- readiness to determine the need for the use of natural healing factors, drug, non-drug therapy and other methods in patients in need of medical rehabilitation and spa treatment (ПК-14);

- readiness to educate patients and their relatives on the basic hygiene measures of a health-improving nature, self-monitoring skills of basic physiological indicators that contribute to maintaining and strengthening health, and preventing disease (ПК-15)

- readiness for educational activities to eliminate risk factors and the formation of healthy lifestyle skills; (ПК-16);

**Organisational and Management activity:**

- ability to apply the basic principles of organization and management in the field of protecting the health of citizens in medical organizations and their structural divisions (ПК-17);

- readiness to participate in assessing the quality of medical care using basic medical and statistical indicators (ПК-18);

- ability to organize medical care in emergency situations, including medical evacuation (ПК-19);

The Matrix of Compliance of competencies and components of the Specialty programme is presented in Appendix 7.

The Levels of Mastery of competencies in the Specialty programmes are presented in Appendix 8.

To justify the need for the introduction of professionally specialized competencies, here the relationship between professional competencies from FSES HE and the necessary labour functions from Professional Standard shall be determined. The correlation between professional competencies specified in the Federal State Educational Standard of Higher Education for each specific type of activity with the labour functions of the corresponding professional standard are shown in Table 5.

Table 5

FSES HE requirements	FSES HE requirements	Conclusions
Professional competences for every type of activity	Labour functions for every Generalized Labour functions (OTΦ) and qualification requirements for them, set in Professional Standard	
- ability and readiness to implement a set of measures aimed at maintaining and strengthening health and including the formation of a healthy lifestyle, preventing the onset and (or) spread of diseases, their early diagnosis, identifying the causes and conditions of their occurrence and development, as well as aimed at eliminating harmful effects on human health of environmental factors (ΠΚ-1)	OTΦ A Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called TΦ A/02.7 Examination of a patient to determine a diagnosis TΦ A/04.7 Implementation and monitoring of the effectiveness of medical rehabilitation of the patient, including the implementation of individual rehabilitation or habilitation programmes for people with disabilities, assessment of the patient's ability to carry out labour activities TΦ A/05.7 Carrying out and monitoring the effectiveness of measures to prevent and promote a healthy lifestyle and sanitary-hygienic education of the population TΦ A/06.7 Maintaining medical documentation and organizing the activities of nursing staff	Professional competence fully corresponds to the labour function OTΦ A, TΦ A/02.07, TΦ A/04.07, TΦ A/05.07, TΦ A/06.7
- ability and readiness to conduct preventive medical examinations, clinical examination and the implementation of clinical supervision (ΠΚ-2);	OTΦ A Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called TΦ A/05.7 Carrying out and monitoring the effectiveness of measures to prevent and promote a healthy lifestyle and sanitary-hygienic education of the population	Professional competence fully corresponds to OTΦ A, TΦ A/05.7
- ability and readiness to conduct anti-epidemic measures, organize the protection of the population in the foci of particularly dangerous infections, with the deterioration of the radiation situation, natural disasters and other emergencies (ΠΚ-3)	OTΦ A Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called TΦ A/05.7 Carrying out and monitoring the effectiveness of measures to prevent and promote a healthy lifestyle and sanitary-hygienic education of the population	Professional competence fully corresponds to OTΦ A, TΦ A/05.7
- ability and readiness to use socio-hygienic methods of collecting and medical and statistical analysis of information on indicators of public health (ΠΚ-4)	OTΦ A Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called TΦ A/06.7 Maintaining medical documentation and organizing the activities of nursing staff	Professional competence fully corresponds to OTΦ A, TΦ A/06.7



FSES HE requirements	FSES HE requirements	Conclusions
- readiness to collect and analyze patient complaints, his or her medical history, examination results, laboratory, instrumental, pathological and anatomical and other studies in order to recognize the condition or establish the presence or absence of a disease (ПК-5);	ОТФ А Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called ТФ А/02.7 Examination of a patient to determine a diagnosis	Professional competence fully corresponds to ОТФ А, ТФ А/02.7
- ability to determine the patient's main pathological conditions, symptoms, disease syndromes, nosological forms in accordance with the International Statistical Classification of Diseases and Health Problems, X revision (ПК-6);	ОТФ А Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called ТФ А/02.7 Examination of a patient to determine a diagnosis	Professional competence fully corresponds to ОТФ А, ТФ А/02.7
- readiness to conduct an examination of temporary incapacity for work, to participate in a medical and social examination, to state the biological death of a person (ПК-7);	ОТФ А Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called ТФ А/04.7 Implementation and monitoring of the effectiveness of medical rehabilitation of the patient, including the implementation of individual rehabilitation or habilitation programmes for people with disabilities, assessment of the patient's ability to carry out labour activities	Professional competence fully corresponds to ОТФ А, ТФ А/04.7
- ability to determine management tactics for patients with various nosological forms (ПК-8)	ОТФ А Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called ТФ А/01.7 Providing medical care to the patient in urgent forms or in case of an emergency ТФ А/02.7 Examination of a patient to determine a diagnosis ТФ А/03.7 Назначение лечения и контроль его эффективности и безопасности	Professional competence fully corresponds to the labour function ОТФ А, ТФ А/01.07, ТФ А/02.07, ТФ А/03.07
- readiness to manage and treat patients with various nosological forms on an outpatient basis and in an inpatient setting (ПК-9)	ОТФ А Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called ТФ А/01.7 Providing medical care to the patient in urgent forms or in case of an emergency	Professional competence fully corresponds to the labour function ОТФ А, ТФ А/01.07, ТФ А/02.07,

FSES HE requirements	FSES HE requirements	Conclusions
	<p>ТФ A/02.7 Examination of a patient to determine a diagnosis</p> <p>ТФ A/03.7 Назначение лечения и контроль его эффективности и безопасности</p> <p>ТФ A/04.7 Implementation and monitoring of the effectiveness of medical rehabilitation of the patient, including the implementation of individual rehabilitation or habilitation programmes for people with disabilities, assessment of the patient's ability to carry out labour activities</p>	<p>ТФ A/03.07, ТФ A/04.7</p>
<p>- readiness to provide medical care for sudden acute diseases, conditions, exacerbation of chronic diseases that are not accompanied by a threat to the patient's life and do not require emergency medical care (ПК-10)</p>	<p>ОТФ А Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called</p> <p>ТФ A/01.7 Providing medical care to the patient in urgent forms or in case of an emergency</p> <p>ТФ A/02.7 Examination of a patient to determine a diagnosis</p> <p>ТФ A/03.7 Назначение лечения и контроль его эффективности и безопасности</p>	<p>Professional competence fully corresponds to the labour function ОТФ А, ТФ A/01.07, ТФ A/02.07, ТФ A/03.07</p>
<p>- readiness to participate in the provision of emergency medical care in conditions requiring urgent medical intervention (ПК-11)</p>	<p>ОТФ А Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called</p> <p>ТФ A/01.7 Providing medical care to the patient in urgent forms or in case of an emergency</p> <p>ТФ A/02.7 Examination of a patient to determine a diagnosis</p> <p>ТФ A/03.7 Назначение лечения и контроль его эффективности и безопасности</p>	<p>Professional competence fully corresponds to the labour function ОТФ А, ТФ A/01.07, ТФ A/02.07, ТФ A/03.07</p>
<p>- readiness for physiological pregnancy, childbirth (ПК-12)</p>	<p>ОТФ А Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called</p> <p>ТФ A/03.7 Назначение лечения и контроль его эффективности и безопасности</p>	<p>Professional competence fully corresponds to ОТФ А, ТФ A/03.7</p>
<p>- readiness to participate in the provision of medical care in emergency situations, including participation in medical evacuation (ПК-13);</p>	<p>ОТФ А Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called</p> <p>ТФ A/01.7 Providing medical care to the patient in urgent forms or in case of an emergency</p>	<p>Professional competence fully corresponds to ОТФ А, ТФ A/01.7</p>
<p>- readiness to determine the</p>	<p>ОТФ А Providing primary health care to the</p>	<p>Professional</p>

FSES HE requirements	FSES HE requirements	Conclusions
need for the use of natural healing factors, drug, non-drug therapy and other methods in patients in need of medical rehabilitation and spa treatment (ПК-14);	adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called ТФ А/04.7 Implementation and monitoring of the effectiveness of medical rehabilitation of the patient, including the implementation of individual rehabilitation or habilitation programmes for people with disabilities, assessment of the patient's ability to carry out labour activities	competence fully corresponds to ОТФ А, ТФ А/04.7
- readiness to educate patients and their relatives on the basic hygiene measures of a health-improving nature, self-monitoring skills of basic physiological indicators that contribute to maintaining and strengthening health, and preventing disease (ПК-15)	ОТФ А Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called ТФ А/05.7 Carrying out and monitoring the effectiveness of measures to prevent and promote a healthy lifestyle and sanitary-hygienic education of the population	Professional competence fully corresponds to ОТФ А, ТФ А/05.7
- readiness for educational activities to eliminate risk factors and the formation of healthy lifestyle skills; (ПК-16)	ОТФ А Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called ТФ А/05.7 Carrying out and monitoring the effectiveness of measures to prevent and promote a healthy lifestyle and sanitary-hygienic education of the population	Professional competence fully corresponds to ОТФ А, ТФ А/05.7
- the ability to apply the basic principles of organization and management in the field of protecting the health of citizens in medical organizations and their structural divisions (ПК-17)	ОТФ А Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called ТФ А/05.7 Carrying out and monitoring the effectiveness of measures to prevent and promote a healthy lifestyle and sanitary-hygienic education of the population ТФ А/06.7 Maintaining medical documentation and organizing the activities of nursing staff	Professional competence fully corresponds to the labour function ОТФ А, ТФ А/05.07, ТФ А/06.07
- readiness to participate in assessing the quality of medical care using basic medical and statistical indicators (ПК-18)	ОТФ А Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called ТФ А/05.7 Carrying out and monitoring the effectiveness of measures to prevent and promote a healthy lifestyle and sanitary-hygienic education of the population	Professional competence fully corresponds to the labour function ОТФ А, ТФ А/05.07, ТФ А/06.7

FSES HE requirements	FSES HE requirements	Conclusions
	TФ A/06.7 Maintaining medical documentation and organizing the activities of nursing staff	
- ability to organize medical care in emergency situations, including medical evacuation (ПК-19)	<p>ОТФ А Providing primary health care to the adult population on an outpatient basis, not providing for 24hours medical supervision and treatment, including at home when a health worker is called</p> <p>ТФ A/01.7 Providing medical care to the patient in urgent forms or in case of an emergency</p>	Professional competence fully corresponds to ОТФ А, ТФ A/01.7

Conclusion: According to the analysis conducted, according to the requirements of the functions from the corresponding Professional Standard there are no missing professional competencies of the Federal State Educational Standards of Higher Education for the selected type of activity.

#### **4. DOCUMENTS REGULATING THE CONTENT AND ORGANIZATION OF THE EDUCATIONAL PROCESS AT THE IMPLEMENTATION OF THE SPECIALTY PROGRAMME**

##### **4.1. Curriculum**

The Curriculum reflects the sequence of mastering the specialty programme, ensuring the formation of competencies. It shows the total complexity of disciplines (modules), practices in credit units and academic hours.

##### **4.2. Calendar Schedule**

The Calendar Schedule or Calendar Training Schedule shows the sequence of implementation of the specialty programme by year, including theoretical education, training, practice, intermediate certification, vacations and State Final Certification.

##### **4.3. Work programmes of disciplines**

The work programmes of the disciplines of both the basic and the variative parts of the Curriculum, including disciplines of students' choices, are an integral part of the specialty programme. Work programmes of disciplines include the name of the discipline; a list of planned learning outcomes in the discipline, an indication of the place of discipline in the structure of the Educational Programme; the amount of discipline in credit units indicating the academic hours allocated to the contact work of the teacher with students by type of training and the independent work of students; topics (sections) indicating the number of academic hours and types of training allocated to them; assessment materials for intermediate certification of students in the discipline; a list of basic and additional literature necessary for mastering the discipline; guidelines for students in the development of the discipline; a description of the material and technical support necessary for the implementation of the educational process in the discipline.

##### **4.4. Practice Programmes.**

In accordance with the Federal State Educational Standards of Higher Education, the section "Practices, including research (hereinafter referred to as R&D)" includes educational and industrial

practices (Appendix 5), which are mandatory and are a type of training that is directly oriented towards professional practical training of students.

Practices consolidate the knowledge and skills acquired by students as a result of mastering theoretical courses, develop practical and scientific work skills, and contribute to the integrated formation of cultural, general professional and professional competencies.

When implementing the educational programme the following types of practices are provided: practical training and work training.

Types of educational practices are: the practice of obtaining primary professional abilities and skills, including primary abilities and skills of research activities; clinical practice.

The method of conducting educational practice is stationary.

Types of production practices are: practice to obtain professional skills and experience of professional activity; clinical practice.

Ways of conducting work trainings are stationary and out-going. Work training practices are carried out on the basis of agreements between the University and third parties.

Training and (or) practical training can be carried out in the structural divisions or departments of the University. The choice of practice sites for people with disabilities is made taking into account the health status of students and accessibility requirements. The use of e-learning, distance learning technologies in the practical training of students is not allowed.

The practice programme includes: an indication of the type of practice, the method and form (forms) of its implementation; a list of planned practice results correlated with the planned results of Educational Programme development; an indication of the place of practice in the structure of the Educational Programme; indication of the volume of practice in credit units and its duration; sections of practice; indication of reporting forms for practice; assessment materials for intermediate certification of students in practice; a list of educational literature necessary for the practice; description of the material and technical base necessary for the practice.

#### **4.5. Программа государственной итоговой аттестации выпускников**

The program of state final certification includes the requirements for preparation for passing and passing the state exam.

The program of state final certification includes: the purpose and objectives of the state final certification; types of state final certification; state exam program; criteria for assessing the results of passing the state exam, a list of questions to be taken for the state exam, recommendations for students preparing for the state exam, including a list of recommended literature for preparing for the state exam.

### **5. REQUIREMENTS FOR THE CONDITIONS OF IMPLEMENTATION OF THE SPECIALTY PROGRAMME**

#### **5.1. Basic material and technical conditions for ensuring the educational process according to the specialty programme**

To implement the educational process in accordance with the programme of the specialty, the University has the material and technical base that complies with the current fire regulations and standards and ensures the conduct of all types of disciplinary and interdisciplinary training, practical and scientific research work of students provided for by the curriculum, which includes special facilities.

Special rooms are classrooms for lectures, seminars and workshops, preparation of term papers, group and individual consultations, ongoing monitoring of performance and intermediate certification, students' independent work, laboratories equipped with laboratory equipment, depending on the degree of complexity, as well as premises for storage and preventive maintenance

of educational equipment. Special rooms are equipped with specialized furniture and technical teaching aids used to present educational information.

During the training sessions, sets of demonstration equipment and educational and visual aids are offered that provide thematic illustrations corresponding to the work programmes of the disciplines. The rooms for self-study are equipped with computer equipment with an access to the Internet and provide access to the University's electronic educational information environment in accordance with the volume of subjects studied.

In the case of the use of e-learning, distance educational technologies, it is allowed to replace specially equipped rooms with their virtual counterparts, allowing students to master the skills stipulated by professional activities. The bases of training and production practices are medical organizations, and this fact allows students to take part in medical activities and to form professional competencies

The place of practice is determined by the Agreement on the organization of practical training of students, concluded between an educational or scientific organization and a medical organization or organization engaged in the manufacture of medicines, an organization engaged in the production and manufacture of medical devices, a pharmacy organization, a forensic institution or other organization carrying out activities in healthcare.

To organize the work of the faculty involved in the implementation of the specialty programme, study rooms, educational and scientific laboratories equipped with modern equipment, access to network information sources, funds of Russian and international scientific libraries are provided. The university is provided with the necessary set of licensed software.

## 5.2. Requirements for staffing for the implementation of the educational process according to the specialty programme

The implementation of the specialty programme is provided by leading and scientific-pedagogical staff, as well as by persons involved in the implementation of the specialty programme on the basis of a civil law contract.

The qualifications of the University's leading and scientific-pedagogical workers correspond to the qualification characteristics established in the Unified Qualification Guide for the Positions of Leaders, Specialists and Employees, the section "Qualification Characteristics of the Positions of Leaders and Specialists of Higher Professional and Further Professional Education", approved by order of the Ministry of Healthcare and Social Development of the Russian Federation dated January 11, 2011 No. 1H and the Professional Standard "General Doctor (District General Practitioner)", approved by the order of the Ministry of Labor and Social Protection of the Russian Federation dated March 21, 2017. No. 293H.

Table 6

Human resourcing for the implementation of the specialty programme is shown in table 6.

№	The name of the indicator according to Federal State Educational Standard of Higher Education	Correlates to FSES HE / Fails to correlate to FSES HE
1	2	3
1.	The share of full-time scientific and pedagogical staff (in reduced to integer rates) should be at least 50 percent of the total number of scientific and pedagogical workers of the organization providing the educational process	Correlates to FSES HE
2.	The share of scientific and pedagogical staff (in reduced to integer rates) who have an education corresponding to the profile of the taught discipline (module) in the total number of scientific and pedagogical workers implementing the specialty programme should be at least 70 percent.	Correlates to FSES HE

№	The name of the indicator according to Federal State Educational Standard of Higher Education	Correlates to FSES HE / Fails to correlate to FSES HE
1	2	3
3.	The share of scientific and pedagogical staff (in reduced to integer rates) who have a degree (including a degree awarded abroad and recognized in the Russian Federation) and (or) academic rank (including academic title obtained abroad and recognized in the Russian Federation), in the total number of scientific and pedagogical workers implementing the specialty programme, should be at least 65 percent.	Correlates to FSES HE
4.	The share of employees (in integer-valued rates) among the heads and employees of organizations whose activities are related to the focus (profile) of the implemented specialty programme (with at least 3 years of experience in this professional field), in the total number of employees implementing the specialty programme must be at least 10 percent.	Correlates to FSES HE

### **5.3. Requirements for educational-methodical and informational support of the educational process during the implementation of the specialty programme**

The programme of the specialty is provided with educational and methodological documentation and information resources for all disciplines and practices, the characteristics of which are presented in work programmes. Each student throughout the entire period of study is provided with individual unlimited access to electronic library systems (electronic libraries) and to the electronic information and educational environment of the university.

The electronic library system (electronic library) and the electronic information and educational environment of the Federal State Budget Educational Establishment of Higher Education «North-Western State Medical University named after I.I. Mechnikov» under the Ministry of Healthcare of Russia (hereinafter referred to as the Information and Educational Environment or Electronic Educational Information Environment) provides students with access from any point where they have access to the Internet information and telecommunication network (hereinafter referred to as the Internet), both on and off the University campus.

The Electronic Educational Information Environment provides:

- access to curricula, work programmes of disciplines (modules), internships, publications of electronic library systems and electronic educational resources specified in work programmes;
- fixing the course of the educational process, the results of intermediate certification and the results of mastering the main educational programme;
- conducting all types of classes, assessment procedures for learning outcomes, the implementation of which is envisaged using e-learning and distance learning technologies;
- formation of the student's electronic portfolio; interaction between participants in the educational process, including synchronous and (or) asynchronous interaction through the Internet.

The functioning of the Electronic Information and Educational Environment is provided by appropriate means of information and communication technologies and the qualifications of the employees who use and support it. The functioning of the Electronic Educational Information Environment complies with the legislation of the Russian Federation.

Each student during the entire period of the study is provided with individual unlimited access to one or more electronic library systems and electronic libraries containing basic literature publications listed in the work programmes of disciplines and practices.

If access to the necessary publications in accordance with the work programmes of disciplines and practices is not provided through electronic library systems, the library stock shall be equipped with print publications based on at least 50 copies of each of the publications of the main literature

listed in the work programmes of disciplines, practices and no less than 25 copies of additional literature per 100 students

The composition of databases and information reference systems is determined in the work programmes of disciplines, practices in the amount necessary for the performance of classroom and independent work of students and is subject to annual updating.

When implementing the specialty programme, the electronic library system (electronic library) and the Electronic Information and Educational Environment shall provide simultaneous access to at least 25% of students.

Students with disabilities shall be provided with printed and electronic educational resources in forms adapted to their health restrictions.

The University has the necessary licensed software (the composition is determined in the work programmes of the disciplines and is subject to annual updating).

The additional literature fund, in addition to the educational one, includes official reference, bibliographic and periodicals per 1-2 copies per 100 students

#### **5.4. Requirements for financial conditions for the implementation of the specialty programme**

Financial support for the implementation of the specialty programme is carried out in the amount not lower than the basic standard costs for the provision of public services in the field of education established by the Ministry of Education and Science of the Russian Federation for a given level of education and the direction of training, taking into account correcting factors on the account the specifics of educational programmes in accordance with the methodology for determining standard costs for the provision of public services for the implementation of educational programmes of higher education in the specialties (areas of training) and enlarged groups of specialties (areas of training), approved by order of the Ministry of Education and Science of the Russian Federation

#### **5.5. Educational technologies used in the implementation of the specialty programme**

When implementing the specialty programme, the following types of training sessions are held, including training sessions aimed at conducting ongoing performance monitoring:

lectures and other training sessions, providing the primary transfer of learning information to students by the teacher (hereinafter referred to as lecture-type classes);

seminars, workshops, clinical and practical classes, laboratory work and other similar classes (hereinafter referred to as seminar-type classes);

group consultations, individual consultations and other training sessions, providing individual work of teachers with students, including guidance on practice;

independent work of students or self study.

The contact work of students with a teacher includes lecture-type classes, seminar-type classes, clinical and practical classes, laboratory work, group consultations, individual work of students with a teacher, as well as ongoing performance monitoring and intermediate certification of students.

The implementation of the competency-based approach involves the use of innovative forms of training that develops students' skills in teamwork, interpersonal communication, decision making, leadership skills, including interactive lectures, business games, analysis of specific medical situations and clinical cases, combined with independent work of students to form and development of professional competencies.

## **6. CHARACTERISTICS OF THE SOCIAL-CULTURAL ENVIRONMENT OF THE UNIVERSITY, ENSURING THE DEVELOPMENT OF GENERAL CULTURAL COMPETENCES OF STUDENTS**



The socio-cultural environment of the University is a space of joint activity of leading, scientific and pedagogical staff, employees and students. It is characterized by the following features that ensure the development of general cultural competencies of graduates:

- integrity of the educational process and its information support;
- normative basis for the management of educational activities;
- infrastructure for mass cultural, sports and fitness work;
- activities of students' self-government;
- interaction of the socio-cultural environment of the University and the external environment.

In this regard, the main goal of educational work at the University is to create favorable conditions for the personal and professional formation of university graduates, combining deep professional knowledge, skills, high patriotic qualities, having a legal and communicative culture, capable of creative expression and active civil position.

In accordance with the goal, the main tasks of educational activities at the University are:

- creation of a unified integrated system of education of students;
- formation of personal qualities necessary for effective professional activity;
- preserving and enhancing the historical and cultural traditions of the University, continuity in the education of students;
- analysis of the interests and creative inclinations of students;
- development of students' spiritual and moral qualities and norms of behavior;
- formation of patriotic consciousness and active citizenship;
- improvement of the cultural level of students, the culture of their behavior, speech and communication;
- support for the talented youth, development of students' creative potential;
- propaganda of the values of physical culture, increase awareness of the need for a healthy lifestyle, education of intolerant attitude to drugs, drunkenness, carrying out preventive measures aimed at preventing students' asocial behavior;
- organization and support of students' self-government;
- organization of socio-psychological assistance for students.

The University carries out diagnostic work on the socio-psychological adaptation of 1st year students, correctional development work aimed at increasing the motivation for learning, individual psychological counseling, work with curators. The conditions are created for self-realization of students and activation of their creative potential through the system of work of the University's music and art club. Annual competitions are held among students in various fields (cultural, creative, social, fitness, sports, etc.)

The University approved the following self-government structure:

- Student Council, which is one of the forms of self-government and was created with the aim of realizing the rights of students to participate in the management of the educational process, solving important issues of student life, developing their social activity, supporting and implementing social initiatives;
- Students Trade Union Organization is an independent youth organization uniting students, interns, residents and post-graduate students of the University, which represents and protects the interests and rights of students;
- Student Scientific Society (hereinafter referred to as SSS), the main activities of which are: creating conditions for the formation of creative activity of students; coordination of the work of various departments of the University in the field of creating a system of support for scientific creativity of students; coordination of the activities of units in the field of student scientific conferences, scientific business trips, etc.

SSS annually holds a conference of students "Mechnikov Readings", a competition for the best student scientific club, a competition for the best student scientific work;

- Student Hostels Councils of students living in hostels, which are one of the forms of self-government and are created in hostels to assist the administration of the hostel and the University in organizing life, improving housing conditions, preserving state property, and widely involving

students living in the hostel to organize and conduct events, aimed at improving social, everyday, cultural, recreational activities, leisure activities and healthy lifestyles.

- Student Sports Club was created for developing and promoting physical culture and sports among students, interns, residents and post-graduate students, doctoral students and employees of the University. Student Sports Club, named on the initiative of students, "Husky" - a youth organization engaged in sports and recreational work both inside the University and at the city level;

- Student Medical Teams which activities are aimed at conducting practical internships at the bases of central regional hospitals in various regions of the country, where students gain vast experience and learn new facets of medicine and understanding the importance of their profession

- "Pinoint/Orientir" Volunteer Center - an organization which activities are aimed at implementing voluntary (volunteer) programmes and projects *in the following areas*: participation in the protection and preservation of the environment, landscaping; conducting work to promote a healthy lifestyle, organizing and conducting preventive work to counteract the spread of socially significant diseases; participation in the organization and conduct of mass cultural, physical education, sports and other entertainment and social events; participation in the organization and conduct of other municipal, regional, interregional, public and international physical culture and sports events and competitions.

- Music and Art Club. The main directions of the Club's work are: organization of work of studios and creative teams; holding university-wide cultural events; participation in city festivals of amateur art of students.

The main goals of students' self-government are: the realization of students' rights to participate in University management, assessing the quality of the educational process, developing their civic culture and active life position; humanistic education of students in the spirit of tolerance, mutual exactingness, democracy, a sense of social justice, intolerance to manifestations of extremism, the formation of a healthy moral and psychological climate in the team; development of self-management skills among students, preparation for competent and responsible participation in society.

Self-management of students helps to deepen the process of socialization of students, to form a professional consciousness and organizational skills.

The socio-cultural environment of the University is based on principles which main goal is to train creatively-minded and harmoniously developed specialists with deep professional knowledge and high civic qualities.

## **7. REGULATORY-METHODICAL SUPPORT for THE SYSTEM of ASSESSING THE STUDENTS' QUALITY OF DEVELOPMENT of the SPECIALTY PROGRAMME**

Assessment of the quality of mastering the specialty programme at the University includes current control of academic performance (including entrance control) and intermediate certification of students, as well as the state final certification in the form of assessment materials.

### **7.1. Evaluation materials for the ongoing monitoring of academic performance and intermediate certification of students**

Evaluation materials provide an assessment of the quality of general cultural, general professional and professional competencies acquired by students.

To control the quality of the study of disciplines (modules), practices, all types of connections between knowledge, abilities and skills are taken into account in assessment materials, allowing to establish the quality of competencies formed by students and the degree of readiness of graduates for professional activities.

Evaluation materials for conducting ongoing monitoring of academic performance and intermediate certification of students in a discipline (module) or practice, which is part of the work programme of the discipline (module) or practice programme, include:

- a list of competencies indicating the stages of their formation;
- a description of indicators and criteria for assessing competencies at various stages of their formation,  
a description of assessment schemes;
- typical / exemplary control tasks or other materials necessary for assessing knowledge, skills, and / or experience of activity characterizing the stages of formation of competencies;
- teaching materials that determine the procedures for assessing knowledge, skills characterizing the stages of formation of competencies.

## **7.2. Assessment materials of state final certification**

Assessment materials of the state final certification include:

- a list of competencies that students should master as a result of mastering the educational programme;
- a description of indicators and criteria for assessing competencies, as well as assessment schemes;
- typical control tasks or other materials necessary to evaluate the results of mastering the educational programme;
- methodological or teaching materials that determine the procedures for evaluating the results of the development of an educational programme.

The requirements for the procedure for conducting state certification tests correspond to the "Procedure for conducting state final certification for undergraduate programmes, specialty programmes and master's programmes."

The University created the conditions for the maximum approximation of the system of assessment and control of students' competencies to the conditions of their future professional activity. For this purpose, in addition to teachers of a specific discipline, employers of medical organizations and institutions, teachers of related disciplines are actively used as external experts.

## **8. REGULATORY-METHODICAL DOCUMENTS AND MATERIALS, ENSURING THE QUALITY OF TRAINING OF STUDENTS OF THE SPECIALTY PROGRAMME**

The University provides an internal guarantee of the quality of student training by:

- development of a strategy to ensure the quality of training of graduates with the participation of representatives of employers;
- monitoring, periodic peer review and updating of educational programmes taking into account changes in educational programmes;
- development of objective procedures for assessing the level of knowledge, skills, as well as competencies of graduates;
- ensuring the competence of the teaching staff;
- regular self-examination according to agreed criteria to evaluate their activities (strategies);
- informing the public about the results of their activities, plans and innovations.

The following documents have been developed at the university that ensure the internal university quality system of the educational process:

- Regulation on the development and approval of basic professional educational programmes of higher education - undergraduate programmes, specialty programmes, master's programmes at the Federal State Budget Educational Establishment of Higher Education «North-Western State Medical University named after I.I. Mechnikov» under the Ministry of Healthcare of Russia;
- Regulation on training according to an individual curriculum, including accelerated learning, within the framework of the mastered educational programme in the areas of training (specialties)

of higher education at the Federal State Budget Educational Establishment of Higher Education «North-Western State Medical University named after I.I. Mechnikov» under the Ministry of Healthcare of Russia;

- Provision on the current control of academic performance, intermediate certification, expulsion, restoration, transfer from other educational organizations, from one educational programme to another of the students of the Federal State Budget Educational Establishment of Higher Education «North-Western State Medical University named after I.I. Mechnikov» under the Ministry of Healthcare of Russia;

- Provision on a score-rating system for assessing educational achievements of students in the Federal State Budget Educational Establishment of Higher Education «North-Western State Medical University named after I.I. Mechnikov» under the Ministry of Healthcare of Russia;

- Provision on the procedure for the formation, selection and mastering of elective and optional disciplines (modules) of undergraduate, specialty and master's programmes at the Federal State Budget Educational Establishment of Higher Education «North-Western State Medical University named after I.I. Mechnikov» under the Ministry of Healthcare of Russia;

- Provision on the procedure for granting academic leave to students of the Federal State Budget Educational Establishment of Higher Education «North-Western State Medical University named after I.I. Mechnikov» under the Ministry of Healthcare of Russia;

- Provision on the Self Study of students of the Federal State Budget Educational Establishment of Higher Education «North-Western State Medical University named after I.I. Mechnikov» under the Ministry of Healthcare of Russia;

- Provision on the elimination of the current academic debt by students of the Federal State Budget Educational Establishment of Higher Education «North-Western State Medical University named after I.I. Mechnikov» under the Ministry of Healthcare of Russia;

- Provision on the transition of students in higher education programmes - undergraduate, specialty and master's programmes at the Federal State Budget Educational Establishment of Higher Education «North-Western State Medical University named after I.I. Mechnikov» under the Ministry of Healthcare of Russia from fee-paying basis to non-fee-paying basis;

- Provision on the procedure for the practical training at the Federal State Budget Educational Establishment of Higher Education «North-Western State Medical University named after I.I. Mechnikov» under the Ministry of Healthcare of Russia;

Provision on the research work of students in higher education programmes - undergraduate, specialty and master's programmes at the Federal State Budget Educational Establishment of Higher Education «North-Western State Medical University named after I.I. Mechnikov» under the Ministry of Healthcare of Russia;

- Provision on the procedure for registration, maintenance and accounting of a student's record book and student ID card at the Federal State Budget Educational Establishment of Higher Education «North-Western State Medical University named after I.I. Mechnikov» under the Ministry of Healthcare of Russia;

- Provision on the conducting additional educational services on fee-paying basis for students of the Federal State Budget Educational Establishment of Higher Education «North-Western State Medical University named after I.I. Mechnikov» under the Ministry of Healthcare of Russia;

- Provision on the supervision of first-year students of faculties of the Federal State Budget Educational Establishment of Higher Education «North-Western State Medical University named after I.I. Mechnikov» under the Ministry of Healthcare of Russia;

- Provision on the support of training for disabled persons in the Federal State Budget Educational Establishment of Higher Education «North-Western State Medical University named after I.I. Mechnikov» under the Ministry of Healthcare of Russia;

- Provision on the procedure for conducting State Final Certification on higher education educational programmes - undergraduate programmes, specialty programmes and master's programmes at the Federal State Budget Educational Establishment of Higher Education «North-

Western State Medical University named after I.I. Mechnikov» under the Ministry of Healthcare of Russia;

- Provision on the Certification Commission of the Federal State Budget Educational Establishment of Higher Education «North-Western State Medical University named after I.I. Mechnikov» under the Ministry of Healthcare of Russia;

- Procedure for conducting exams for students studying undergraduate, specialty and graduate programmes at the Federal State Budget Educational Establishment of Higher Education «North-Western State Medical University named after I.I. Mechnikov» under the Ministry of Healthcare of Russia;

- Procedure for processing the contractual relationship, their suspension and termination between the Federal State Budget Educational Establishment of Higher Education «North-Western State Medical University named after I.I. Mechnikov» under the Ministry of Healthcare of Russia and students and (or) parents (legal representatives) of underage students;

-Regimen of students studying at the Federal State Budget Educational Establishment of Higher Education «North-Western State Medical University named after I.I. Mechnikov» under the Ministry of Healthcare of Russia;

- Procedure for processing documents in case of violation by students of the obligations stipulated by the Charter, the Rules of the internal regulations of students, other local acts of the Federal State Budget Educational Establishment of Higher Education «North-Western State Medical University named after I.I. Mechnikov» under the Ministry of Healthcare of Russia.

## **9. LIST OF MAIN DOCUMENTS INCLUDED IN THE SPECIALTY PROGRAMME**

Attachment 1. Curriculum

Attachment 2. Calendar schedule

Attachment 3. Work programmes of disciplines (Modules)

Attachment 4. Practice Programmes

Attachment 5. State Final Attestation Programme

Attachment 6. Competency Matrix

Attachment 7. Levels of mastery of competencies by graduates

Attachment 8. Teaching Materials

Attachment 9. Statement of material and technical support

Attachment 10. Human Resourcing Statement