

ЛД-21

Federal State Budgetary Educational Institution higher education

"NORTH-OSSETIAN STATE MEDICAL ACADEMY"

Ministry of Health of the Russian Federation



APPROVED

Rector of FSBEI HE NOSMA

O.V. Remizov

May 24, 2023

TRAINING PRACTICE PROGRAM

general medical practice (the basics of practical training for the professional activity of a general practitioner for the provision of primary health care)

TOPICAL ISSUES OF CARDIOLOGY

main professional educational program of higher education -

Specialist programs in the specialty 31.05.01 General Medicine,

approved on May 24, 2023

Form of study _____ **full-time** _____

(intramural, intramural-extramural (evening), extramural)

term of mastering the educational program _____ **6 years** _____

(standard term of study)

Department of Internal Medicine №4

Vladikavkaz, 2023

ЛД-21

When developing the work program of the discipline, the basis is based on:

1. Federal State Educational Standard of Higher Education in the specialty 31.05.01 General medicine approved by the Ministry of Education and Science of the Russian Federation on August 12, 2020 No. 988
2. The curriculum in the specialty 31.05.01 General medicine (ЛД-21-01-21ИИ; ЛД-21-02-22 ИИ), approved by the Academic Council of the Federal State Budgetary Educational Institution of Higher Education NOSMA of the Ministry of Health of Russia on May 24, 2023, protocol No. 8.

The work program of the discipline was approved at a meeting of the Department of Internal Medicine No. 4 of May 17, 2023, protocol No.17

The work program of the discipline was approved at a meeting of the central coordinating educational and methodological council dated May 23, 2023, protocol No.5

The working program of the discipline was approved by the Academic Council of the Federal State Budgetary Educational Institution of Higher Education NOSMA of the Ministry of Health of Russia dated May 24, 2023, protocol No.8

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diseases No. 5 FSBEI HE NOSMA

Ministry of Health of Russia, prof. N.M. Burduli



The content of the educational practice program

1. the name of the training practice;
2. a list of planned learning outcomes in educational practice, correlated with the planned results of mastering the educational program;
3. an indication of the place of educational practice in the structure of the educational program;
4. the volume of training practice in credit units, indicating the number of academic or astronomical hours allocated for contact work of students with a teacher (by type of training) and for independent work of students;
5. the content of educational practice, structured by topics (sections) with an indication of the number of academic or astronomical hours allocated to them and types of training sessions;
6. a list of educational and methodological support for independent work of students in educational practice;
7. fund of evaluation means for the intermediate certification of students in educational practice;
8. a list of basic and additional educational literature necessary for mastering educational practice;
9. a list of resources of the information and telecommunication network "Internet" (hereinafter referred to as the "Internet" network), necessary for the development of educational practice;
10. guidelines for students on the development of educational practice;
11. a list of information technologies used in the implementation of the educational process for educational practice, including a list of software and information reference systems (if necessary);
12. Description of the material and technical base required for the implementation of the educational process for educational practice.
13. conducting educational activities using e-learning and distance learning technologies.

2. The list of planned learning outcomes in educational practice and the results of mastering the educational program

№ п/п	Competence number / index	Content of competence (or part of it)	Topic of the lesson (section)	Competence achievement indicators	Development results		
					know	be able to	own
1	2	3	4	5	6	7	8
1.	GPC-4	The ability to use medical devices provided for by the procedure for the provision of medical care, as well as to conduct examinations of a patient in order to establish a diagnosis.	Topical issues of cardiology	<p>ID-1 GPC-4 Is able to draw up a plan of laboratory and instrumental diagnostics</p> <p>ID-2 GPC -4 Owns the algorithm for the clinical examination of the patient</p> <p>ID-3 GPC -4 Owns the algorithm for the use of medical devices, provided for by the procedure for the provision of medical care.</p>	<p>Methods for collecting and analyzing complaints, patient anamnesis, assessing the objective status of a patient with circulatory diseases, diagnostic methods, diagnostic capabilities of research methods and differential diagnostic</p>	<p>Conduct a survey and physical examination of the patient on the cardiovascular system. Assess the patient's condition in order to make a decision on the need to provide him with medical care. Outline the volume of additional studies in accordance with the prognosis of the disease, to clarify the diagnosis and obtain a reliable result.</p> <p>Interpret the data of</p>	<p>Algorithm for assessing the condition and establishing the fact of the presence of the disease.</p> <p>Methods of general clinical examination, interpretation of the results of laboratory and instrumental diagnostic methods</p>

					ics of cardiovascular diseases.	laboratory and instrumental examination methods - ECG and ECG stress tests, daily monitoring of blood pressure and ECG, echocardiography, radiography and radiotomography, demonstrate work with a defibrillator. Formulate a clinical diagnosis.	
2.	GPC-5	The ability to assess morphological and functional, physiological conditions and pathological processes in the human body for solving professional problems.	Topical issues of cardiology	ID-1 GPC - 5 Owns the algorithm of clinical, laboratory and functional diagnostics in solving professional problems. ID-2 GPC - 5 Evaluates the results of clinical, laboratory and functional diagnostics in solving professional problems.	Definition, etiology, risk factors, pathogenesis of diseases of the circulatory system.	To give a histophysiological assessment of the state of various cellular, tissue and organ structures. Evaluate the parameters of the body's systems.	Methods of general clinical examination, an algorithm for diagnosing diseases of the cardiovascular system.

				ID-3 GPC - 5 Determines the morphofunctional, physiological states and pathological processes of the human body.			
3.	GPC-7	Ability to prescribe treatment and monitor its effectiveness and safety	Topical issues of cardiology	ID-1 GPC - 7 Provides effective, safe therapy based on the clinical guidelines of the Russian Ministry of Health.	Choose an individual type of care for the treatment of a patient with a disease of the circulatory system.	To formulate indications for the chosen method of treatment, taking into account etiologic and pathogenetic agents, to justify pharmacotherapy in a particular patient with a disease of the cardiovascular system.	Algorithm for the implementation of the main therapeutic measures for diseases of the cardiovascular system.

3. Place of educational practice in the structure of the educational program

General practice practice (the basics of practical training for the professional activity of a general practitioner for the provision of primary health care) "Topical issues of cardiology" is the educational practice of the compulsory part of Block 2 (Practice) of the Federal State Educational Standard of Higher Education in the specialty 31.05.01 "General Medicine".

4. Amount of training practice

№	Type of work	Total	Total	Semester
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		credits	hours	XII
				hours
1	2	3	4	8
1	Contact work of students with teacher (total), including:	-	24	24
2	Lectures (L)	-		
3	Clinical Practices (CL)	-	24	24
4	Seminars (C)	-		
5	Laboratory work (LW)	-		
6	Student independent work (IWS)	-	21	12
7	Intermediate type appraisals	credit (C)	-	
		exam (E)	-	
8	TOTAL: General labor intensity	hours	-	
		credit units	1	36

5. Content of educational practice

№	Semester number	Name of the section of the academic discipline (module)	Types of educational activities, including independent work of students (in hours)					Forms of current monitoring of progress (by week of the semester)
			L	LW	CL	IWS	Total	
1	2	3	4	5	6	7	8	9
Topical issues of cardiology								
1	XII	Acute coronary syndrome: diagnosis, patient management tactics			4	2	6	Oral questioning, control work, written and computer testing, solving situational problems, clinical analyzes of
2	XII	Hypertonic disease. Hypertensive crises: classification, diagnosis, emergency care.			2	1	3	

3	XII	Heart rhythm disorders: classification, management tactics			2	1	3	patients, participation of students in rounds of the head. department and associate professors, individual homework
4	XII	Decompensation of chronic heart failure: causes, emergency care.			2	1	3	
5	XII	Introduction to cardio-oncology.			2		2	
6	XII	Patients with pacing and implantable devices in outpatient practice.			1	1	2	
7	XII	Master class on registration and interpretation of electrocardiograms			2	1	3	
8	XII	Functional methods for the diagnosis of coronary heart disease			2	1	3	
9	XII	Prevention of cardiovascular disease and modification of risk factors.			1		1	
10	XII	Daily monitoring of blood pressure and electrocardiogram: indication, interpretation of results.			1	1	2	
11	XII	Stratification and correction of the risk of cardiac complications before elective surgical interventions.			1		1	
12	XII	Antithrombotic therapy in outpatient practice.			1		1	
13	XII	Non-coronary myocardial diseases.			1	1	2	
14	XII	Modern approaches in the diagnosis and treatment of infective endocarditis.			1	1	2	
15	XII	Diseases of the pericardium.			1	1	2	
		TOTAL			24	12	36	

6. The list of educational and methodological support for independent work of students in educational practice

№	Semester number	Name of educational and methodological development
1	XII	<p>Z.T. Astakhova, Z.A. Kulova, Z.A. Toguzova, M.M. Besaeva</p> <p>Methodological developments in cardiology in the course of hospital therapy.</p> <p>Z.T. Astakhova, A.V. Rappoport, I.B. Tuaeva and others. "Myocardial infarction" - a methodological guide, Vladikavkaz, 2012. - TSUMK therapeutic disciplines.</p> <p>Z.T. Astakhova, I.B. Tuaeva, A.V. Rappoport and others. "Congenital and acquired heart defects" .- Vladikavkaz, 2012.- TSUMK of therapeutic disciplines.</p> <p>ZT Astakhova, ZA Toguzova, Zh.A. Kulova and others. "Methodological recommendations for training in emergency therapy for students of the VI year." - Vladikavkaz, 2012. - TSUMK therapeutic disciplines.</p> <p>Z.T. Astakhova, I.B. Tuaeva, A.V. Rappoport and others. "Guidelines for cardiology for practical training of students of the VI year." - Vladikavkaz, 2012. - TSUMK therapeutic disciplines.</p> <p>Z.T. Astakhova, Z.A. Kulova and others. "Cardiomyopathy". Educational-methodical development for self-preparation of students for a practical lesson.- Vladikavkaz, 2013.-TsUMK therapeutic disciplines.</p> <p>ZT Astakhova, ZA Toguzova and others. "IHD. Myocardial infarction ". Educational-methodical development for self-preparation of students for a practical lesson.-Vladikavkaz, 2012.-TSUMK therapeutic disciplines.</p> <p>ZT Astakhova, ZA Toguzova and others "Complications of myocardial infarction." Educational-methodical development for self-preparation of students for a practical lesson.-Vladikavkaz, 2013.-TsUMK therapeutic disciplines.</p> <p>ZT Astakhova, AV Rappoport et al. "Violation of the function of automatism." Educational-methodical development for self-preparation of students for a practical lesson.-Vladikavkaz, 2013.-TsUMK therapeutic disciplines.</p> <p>ZT Astakhova, AV Rappoport et al. "Non-coronary myocardial diseases - myocarditis, endocarditis, pericarditis." Educational-methodical development for self-preparation of students for a practical lesson.-Vladikavkaz, 2012.-TSUMK therapeutic disciplines.</p> <p>ZT Astakhova, IB Tuaeva et al. "Genesis of the main teeth, intervals and segments of the ECG. Email axis of the heart. ECG signs of hypertrophy. " Educational-methodical development for self-preparation of students for a practical lesson.- Vladikavkaz, 2012.-TSUMK therapeutic disciplines.</p> <p>ZT Astakhova, I.B. Tuaeva and others. "Violation of the function of excitability." Educational-methodical development for self-preparation of students for a practical</p>

	<p>lesson.-Vladikavkaz, 2012.-TSUMK therapeutic disciplines.</p> <p>ZT Astakhova, ZA Kulova and others. "Idiopathic myocarditis of Abramov-Fiedler." Educational-methodical development for self-preparation of students for a practical lesson.-Vladikavkaz, 2006.-TsUMK of therapeutic disciplines</p> <p>Z.T. Astakhova, Z.A. Kulova, Z.Z. Dzukaeva. "Endocarditis" .- Vladikavkaz, 2020 TsUMK of therapeutic disciplines.</p> <p>ZT Astakhova, ZA Toguzova, ZA Kulova, DS Zagalova "Chronic heart failure", - Vladikavkaz, 2020. TSUMK of therapeutic disciplines.</p>
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7. Fund of assessment tools for intermediate certification of students in educational practice

№/п	List of competencies	No. semester	Indicator (s) evaluating	Evaluation criterion (s)	Grading scale	appraisal fund name
1	2	3	4	5	6	7
1.	GPC-4 GPC -5 GPC -7	XII	The standard for assessing the quality of education, approved by By order of the Federal State Budgetary Educational Institution of Higher Education of the NOSMA of the Ministry of Health of Russia dated 10.07.2018, No. 264/0	The standard for assessing the quality of education, approved by By order of the Federal State Budgetary Educational Institution of Higher Education of the NOSMA of the Ministry of Health of Russia dated 10.07.2018, No. 264/0	The standard for assessing the quality of education, approved by By order of the Federal State Budgetary Educational Institution of Higher Education of the NOSMA of the Ministry of Health of Russia dated 10.07.2018, No. 264/0	Exam tickets for credit, test tasks, control tasks, analyzes.
2.	GPC -4 GPC -5 GPC -7	XII	The standard for assessing the quality of education, approved by By order of the Federal State Budgetary Educational Institution of	The standard for assessing the quality of education, approved by By order of the Federal State Budgetary Educational Institution of	The standard for assessing the quality of education, approved by By order of the Federal State Budgetary Educational Institution of	Exam tickets for credit, test tasks, control tasks, ECG.

			Higher Education of the NOSMA of the Ministry of Health of Russia dated 10.07.2018, No. 264/0	Higher Education of the NOSMA of the Ministry of Health of Russia dated 10.07.2018, No. 264/0	Higher Education of the NOSMA of the Ministry of Health of Russia dated 10.07.2018, No. 264/0	
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8. List of basic and additional educational literature necessary for mastering educational practice

Main literature

№	Name	Authors	Year, place of publication	number of copies	
				in library	at the department
1	2	3	4	7	8
1.	Internal medicine: textbook: in 2v	Edited by V.S. Moiseev	M., GEOTAR-Media, 2012, M., GEOTAR-Media, 2013.	V.1-52 V.2-52	2
2.	Internal medicine: textbook.	V. I. Makolkin, S. I. Ovcharenko	M.: GEOTAR-Media, 2011 M.: GEOTAR-Media, 2013	99 20 «Konsul'tant studenta» http://www.studmedlib.ru/book/ISBN9785970425763.html	2 1
3.	Hospital therapy, study guide.	Edited by V.A. Lyusov	M.: GEOTAR-Media, 2010.	1 «Konsul'tant studenta» http://www.studmedlib.ru/book/ISBN9785970425763.html	2
4.	Internal illnesses. 333 test problems	Edited by L.I. Dvoretzky	M.: GEOTAR-Media, 2010.	1 «Konsul'tan	1

	and comments to them. Tutorial.			t studenta»http://www.studmedlib.ru/ru/book/ISBN9785970425763.html	
5.	"Cardiology": national guidelines	Yu.N. Belenkov, G.G. Oganov	M.: GEOTAR-Media, 2007. M.: GEOTAR-Media, 2015	10 1	1

additional literature

№	Name	Authors	Year, place of publication	Number of copies	
				in library	at the department
1	2	3	4	7	8
1.	"Emergency cardiology"	Edited by A.L. Syrkin	M.; MIA, 2015	2	1
2.	Methodical instructions for 6th year students of the Faculty of General Medicine in the cycle of cardiology.	Department of Internal Diseases No. 4, Z.T. Astakhova.	Vladikavkaz, 2012	-	16
3.	Internal Medicine with the Basics of Evidence-Based Medicine and Clinical Pharmacology: A Guide for Physicians	S.V. Moiseev, Zh.D. Kobalava, V.S. Moiseev	M.: GEOTAR-Media, 2008	13	-
4.	Clinical pharmacology and pharmacotherapy in real medical practice: master class: textbook.	V.I. Petrov.	M.: GEOTAR-Media, 2011 M.: GEOTAR-Media, 2015	1 3	- -
5.	Internal illnesses. Laboratory and instrumental diagnostics: textbook. allowance.	Roitberg G.E.	M.: MED-press-inform, 2011	2	-

6.	Guide to cardiology: textbook. manual T1.	Edited by G.I. Strozhakov	M .: GEOTAR-Media, 2008	12	1
7.	Guide to cardiology: textbook. manual T2.	Edited by G.I. Strozhakov	M .: GEOTAR-Media, 2008	3	1
8.	Guide to cardiology: textbook. manual T3.	Edited by G.I. Strozhakov	M .: GEOTAR-Media, 2009	3	1

9. The list of resources of the information and telecommunication network "Internet" necessary for the development of educational practice

1. "Student advisor"

<http://www.studmedlib.ru/ru/book/ISBN9785970425763.html>

<http://www.studmedlib.ru/ru/book/ISBN9785970425794.html>

<http://www.studmedlib.ru/ru/book/ISBN9785970425800.html>

<http://www.studmedlib.ru/ru/book/ISBN9785423500764.html>

<http://www.studmedlib.ru/ru/book/ISBN9785970430743.html>

<http://www.studmedlib.ru/ru/book/ISBN9785970425763.html>

<http://www.studmedlib.ru/ru/book/ISBN9785970425794.html>

<http://www.studmedlib.ru/ru/book/ISBN9785970425800.html>

<http://www.studmedlib.ru/ru/book/ISBN9785423500764.html>

<http://www.studmedlib.ru/ru/book/ISBN9785970430743.html>

Medical standards: <http://www.rspor.ru/index.php?mod1=standarts3&mod2=db1>

- State Register of Medicines: <http://www.drugreg.ru/Bases/WebReestrQuery.asp>

- Russian Encyclopedia of Medicines (RLS): <http://www.rlsnet.ru>

- Directory Vidal. Medicines in Russia: <http://www.vidal.ru>

-National Internet Society of Internal Medicine Specialists -<http://internist.ru>

-The first medical channel -<http://1med.tv>

- Interregional Society of Evidence-Based Medicine Specialists. <http://www.osdm.org/index.php>

-Russian Society of Cardiology - <http://www.scardio.ru/>

-Russian Scientific Medical Society of Physicians- <http://www.rnmot.ru/>

Electronic versions of magazines:

"Consilium medicum" - <http://www.consilium-medicum.com/media/consilium>

"Bulletin of Evidence-Based Medicine" <http://www.evidence-update.ru/>

"Doctor" -<http://www.rusvrach.ru/journals/vrach>

Evidence-Based Cardiology - <http://www.mediasphera.ru/journals/dokcard>

"Pulmonology" - <http://www.consilium-medicum.com/media/pulmo>

"Russian Journal of Gastroenterology, Hepatology, Coloproctology" - <http://www.m-vesti.ru/rggk/rggk.html>

Russian Medical Journal - <http://www.rmj.ru>

"Handbook of an outpatient doctor" - - <http://www.consilium-medicum.com/media/refer>

"Difficult Patient" - <http://www.t-pacient.ru>

"Pharmateca" - <http://www.pharmateca.ru>

10. Methodical instructions for students on mastering the program of educational practice

Training consists of contact work (24 hours), including practical exercises, and independent work (12 hours). The main study time is allocated for practical work on the provision of qualified medical care to patients and on the provision of emergency medical care in urgent conditions.

When studying the discipline, knowledge of etiology, pathogenesis, clinical picture of diseases and pathological conditions, modern classification of diseases, possible complications of the most common diseases, modern methods of clinical, laboratory, instrumental examination of patients are used and practical skills are mastered to formulate a clinical diagnosis, develop a plan of therapeutic action, formulate indications for the chosen method of treatment, taking into account etiologic and pathogenetic agents, to justify pharmacotherapy in a particular patient with major pathological syndromes and emergency conditions.

Practical classes are conducted in the form of a clinical analysis of patients being treated at the clinic, the participation of students in the rounds of the head. department, demonstration of practical skills in the provision of medical care using visual aids, solving situational problems, answering test tasks, analyzing clinical patients.

The main method of teaching 6-year students is independent work of a student at the patient's bedside under the guidance of a teacher. Along with this, the development of diagnostic research methods in the main sections of internal medicine in functional diagnostics rooms, X-ray rooms, clinical and biochemical laboratories is actively used; participation in clinical and pathological conferences;

participation in professorial rounds; registration of medical documentation; participation in thematic rounds and clinical analyzes of patients; conducting seminars in cycles: cardiology, nephrology, gastroenterology, pulmonology, hematology, functional diagnostics, physiotherapy exercises and medical supervision with the basics of manual therapy; conducting credits and general certification in practical skills; participation of students in scientific work.

Clinical analysis of the patient in lectures and practical classes is accompanied by a demonstration and detailed analysis of the results of additional research methods, while participation in the analysis of students is mandatory, with an independent interpretation of complaints, anamnesis, objective status data, functional and laboratory research methods, the formulation of a clinical diagnosis, the formation of differentiated treatment and a rehabilitation plan. The purpose of the analysis is a detailed study of the disease in its individual version.

In accordance with the requirements of the Federal State Educational Standard, active and interactive forms of conducting classes are widely used in the educational process. The proportion of classes conducted in interactive forms is at least 10% of classroom lessons.

Each student is provided with access to the library funds of the University and the department.

The initial level of students' knowledge is determined by testing, the current control of mastering the subject is determined by oral questioning during classes, during clinical analyzes, when solving typical situational tasks and answering test tasks.

At the end of the study of the discipline, an intermediate control of knowledge is carried out using test control, testing of practical skills and solving situational problems.

Questions on the academic discipline are included in the State final certification of graduates.

11. The list of information technologies used in the implementation of the educational process for educational practice

Microsoft Office

PowerPoint;

Internet explorer

All-Russian Educational Internet Program - "Internist"

12. Description of the material and technical base required for the implementation of the educational process for educational practice

The Department of Internal Medicine No. 4 is located on the basis of the cardiological, gastroenterological and nephrological departments of the Republican Clinical Hospital.

The department has 176 beds: 120 - cardiological, 40 nephrological - 40 - gastroenterological. In addition, classes in hematology are held on the basis of the hematology department of the Republican

Oncological Dispensary, in pulmonology - on the basis of the pulmonology department of the Republican Clinical Hospital. The Republican Clinical Hospital is currently equipped with a sufficient arsenal of modern diagnostic equipment, which makes it possible to ensure the educational process at a sufficiently high level.

The total educational area occupied by the department is 338.39 sq. M. The department has its own conference. hall (34.2 sq.m.) and a lecture hall for 100 seats (98.82 sq.m.). At the disposal of the department there is: the office of the head of the department, the office of the professor of the department (28.67 and 19.38 sq. M., Respectively), study rooms (2 –№2 - 15.66 sq. m., No. 4 - 9.37 sq.m., No. 5 - 21.09 sq.m. on the territory of the cardiological building, as well as one study room each in the departments of gastroenterology and nephrology), laboratory of functional diagnostics (33, 06 sq.m.), laboratory for daily monitoring of pressure and ECG (13.3 sq.m.), computer class - study room No. 1 (19.38 sq.m.), practical skills class (21.09 sq.m.) .), assistant (8.7 sq.m.). In specialized departments (cardiology, nephrology, gastroenterology, functional diagnostics, pulmonology), there are study rooms equipped with appropriate teaching aids (stands, tables, modular components), which make it possible to fully ensure the development of the material.

In addition to educational and methodological information, visual media present: the history of the development of the department, the scientific work of the team (monographs, abstracts), medical activities, the results of the work of the Council of People's Commissars. There is a stand for organizing the educational process with plans for a lecture course, practical classes, a schedule of classes, the distribution of classrooms, a list of topics for independent study by students, a list of questions for the IGA, a schedule of teachers and assistants on duty, a schedule of consultations and practice sessions. The stands reflect the current activities of the department and are regularly updated.

The computer class, created on the basis of the department, makes it possible to provide in full both the educational process and the current and final control of the quality of students' knowledge. Classes in the computer class are conducted according to the schedule available at the department.

№	equipment identification	Quantity	Technical condition
Special equipment			
1	Bicycle ergometer	1	satisfactorily
2	Overhead	2	satisfactorily
3	ECG	1	satisfactorily
4	Computer diagnostic system "Valenta"	1	satisfactorily
5	Complex "Diamant"	1	satisfactorily
6	Blood pressure monitor (holter)	1	satisfactorily
7	ECG monitor (holter)	1	satisfactorily

8	Duodenal and gastric probes	2	satisfactorily
Dummies			
1	Surgical dummy phantom UZFO	1	satisfactorily
2	Pulmonary trainer for mechanical ventilation and chest compressions	1	satisfactorily
3	Universal head trainer	1	satisfactorily
4	Proctological simulator	1	satisfactorily
	Tables	28	satisfactorily

13. Conducting educational activities using e-learning and distance learning technologies.

In the context of the introduction of restrictive measures (quarantine) associated with an unfavorable epidemiological situation, the threat of the spread of a new coronavirus infection and other force majeure events that do not allow full-time training, it is possible to study this discipline or part of it using e-learning and distance educational technologies.

Teaching the discipline in the above situations will be carried out through the development of an electronic course with access to video lectures and interactive course materials: presentations, articles, additional materials, tests and various tasks. When conducting training sessions, monitoring progress, as well as intermediate certification of students, platforms of the electronic information and educational environment of the academy and / or other e-learning systems recommended for use in the academy, such as Moodle, Zoom, Webinar, etc. can be used.

Lectures can be presented in the form of audio, video files, "live lectures", etc.

Conducting seminars and workshops is possible online in both synchronous and asynchronous modes. Seminars can be held in the form of web conferences.