

ЛД-16 ИИ

Federal State Budgetary Educational Institution of Higher Education  
«North-Ossetia State Medical Academy»  
of the Ministry of Healthcare of the Russian Federation

APPROVED

Rector of FSBEI HE NOSMA



of the Russian Federation

O.V. Remizov

March 30, 2022

EDUCATIONAL TRAINING PROGRAM OF DISCIPLINE

"Hospital therapy"

the main professional educational program of higher education - specialty program in the  
specialty 31.05.01 General Medicine, approved in March 30, 2022

Form of education Full-time

The period of development 6

Department of Internal diseases №4

Vladikavkaz, 2022



ЛД-16 ИИ

When developing an educational training program, the discipline is based on:

Federal State Educational Standard of Higher Education on specialty 31.05.01 General Medicine, approved by the Ministry of Education and Science of the Russian Federation on February 9, 2016 №95

Academic plan on specialty 31.05.01 General Medicine,

ЛД-16-02-17 ИИ

ЛД-16-03-18 ИИ

ЛД-16-04-19 ИИ

ЛД-16-05-20 ИИ approved by the Scientific Council of the Federal State Budgetary Educational Institution of Higher Education «North-Ossetia State Medical Academy» of the Ministry of Healthcare of the Russian Federation March 30, 2022, Protocol № 6.


The educational training program of the discipline was approved at a meeting of the department of Internal diseases №4 from March 3, 2022, Protocol №. 13

The educational training program of the discipline was approved at a meeting of the central coordinating training and methodological council from March 22, 2022, Protocol №.4

The educational training program of the discipline was approved by the Scientific Council of the State Medical University of the Federal State Budgetary Educational Institution of Higher Education «North-Ossetia State Medical Academy» of the Ministry of Healthcare of the Russian Federation from March 30, 2022, Protocol № 6.

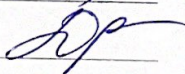
**Developers:**

Head of the department



Z.T.Astakhova

Assistant of the department



Z.Z.Dzukaeva

**Reviewers:**

Head of Innovation Projects Department of the Ministry of Healthcare of the Republic of North Ossetia Alania A.P.Shanaeva

Professor of the department of Internal diseases № 1

Doctor of medical sciences, prof. I.N.Totorov

### **Content of the work program**

1. name of the discipline;
2. a list of planned learning outcomes in the discipline , correlated with the planned results of mastering the educational program;
3. indication of the place of the discipline in the structure of the educational program;
4. the volume of discipline 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 the discipline, structured by topics (sections) indicating 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 the discipline;
7. a fund of evaluation tools for conducting intermediate certification of students in the discipline;
8. a list of basic and additional educational literature necessary for mastering the discipline;
9. a list of resources of the information and telecommunications network "Internet" (hereinafter referred to as the "Internet" network) necessary for mastering the discipline;
10. methodological instructions for students on mastering the discipline;
11. a list of information technologies used in the implementation of the educational process in the discipline, including a list of software and information reference systems (if necessary);
12. description of the material and technical base necessary for the implementation of the educational process in the discipline.
13. conducting educational activities using e-learning and distance learning technologies.

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

№ № n / n	Number / index of competence	The content of the discipline (or its sections)	Development results		
			know	be able to	own
one	2	3			
one.	OPK-8	Respiratory diseases	Choose an individual type of care for the treatment of a patient with a disease of the bronchopulmonary system.	To formulate indications for the chosen method of treatment, taking into account etiotropic and pathogenetic agents, to substantiate pharmacotherapy in a particular patient with a disease of the bronchopulmonary system.	Algorithm for the implementation of basic therapeutic measures for diseases of the bronchopulmonary system.
2.	OPK-9		Definition, etiology, risk factors, pathogenesis of respiratory diseases.	To give a histophysiological assessment of the state of various cellular, tissue and organ structures. Assess the parameters of the body systems.	Methods of general clinical examination, algorithm for diagnosing diseases of the bronchopulmonary system.
3.	PC-5		The methodology for collecting and analyzing complaints, the patient's history, assessing the objective status of a patient with a respiratory disease, diagnostic methods, diagnostic	Conduct a survey and physical examination of the patient in the respiratory system. Assess the patient's condition to make a decision on the need to provide him with medical care. Outline the scope of additional studies in accordance with the prognosis of the disease, to	Algorithm for assessing the state and establishing the fact of the presence of the disease. Methods of general clinical examination, interpretation of the results of laboratory and

fo ur .	PC-6		<p>capabilities of research methods and differential diagnosis of bronchopulmonary diseases.</p> <p>Modern classifications, clinical picture, course features and possible complications of respiratory diseases. Criteria for diagnosis.</p>	<p>clarify the diagnosis and obtain a reliable result. Interpret the data of laboratory and instrumental examination methods - spirometry, picrofluometry, radiography and X-ray tomography, endoscopic methods, MRI tomography. Formulate a clinical diagnosis.</p> <p>Formulate a clinical diagnosis.</p> <p>Develop a plan of therapeutic action, taking into account the course of the disease and its treatment. Formulate</p>	<p>instrumental diagnostic methods.</p> <p>An algorithm for a detailed clinical diagnosis.</p>
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5.	PC-8		<p>Clinical and pharmacological characteristics of the main groups of drugs and the rational choice of specific drugs in the treatment of major pathological syndromes of respiratory diseases.</p>	<p>indications for the chosen method of treatment, taking into account etiotropic and pathogenetic agents, substantiate pharmacotherapy in a particular patient with major pathological syndromes and emergency conditions, determine the route of administration, regimen and dose of drugs, evaluate the effectiveness and safety of the treatment. Choose an individual type of care for the treatment of a patient with a respiratory disease in accordance with the situation: primary care, ambulance, hospitalization.</p> <p>Use methods of primary and secondary prevention in medical activities.</p>	<p>Algorithm for determining the tactics of managing patients with respiratory diseases.</p>
	PC-9		<p>Fundamentals of the organization of medical (outpatient and inpatient) care for various groups of the population, the</p>		<p>Algorithm for the treatment of</p>

6.	PC-10		<p>principles of medical examination of patients with respiratory diseases.</p> <p>Features of the organization and scope of work of an outpatient doctor, modern diagnostic capabilities of the outpatient service.</p> <p>Methods of carrying out urgent measures for diseases of the respiratory system.</p>	<p>Provide emergency care for lung diseases (attack of bronchial asthma, spontaneous pneumothorax, etc.)</p> <p>Conduct resuscitation in life-threatening conditions.</p>	<p>patients with respiratory diseases on an outpatient basis and in day hospital conditions.</p>
			<p>Methods of intensive care for patients who have undergone a critical condition.</p>		<p>The main medical diagnostic therapeutic measures to provide medical care in acute conditions that are not accompanied by a threat to the life of patients with bronchopulmonary diseases.</p> <p>The main medical diagnostic therapeutic measures to provide medical care in conditions accompanied by a threat to the</p>
7.	PC-11				
eight.					

					life of patients with bronchopulmonary diseases.
one.	OPK-8	Diseases of the urinary organs	To choose an individual type of care for the treatment of a patient with a disease of the urinary organs.	To formulate indications for the chosen method of treatment, taking into account etiotropic and pathogenetic agents, to substantiate pharmacotherapy in a particular patient with a disease of the urinary system.	Algorithm for the implementation of basic therapeutic measures for diseases of the urinary system.
2.	OPK-9		Definition, etiology, risk factors, pathogenesis of diseases of the urinary organs.	To give a histophysiological assessment of the state of various cellular, tissue and organ structures. Assess the parameters of the body systems.	Methods of general clinical examination, the algorithm for diagnosing diseases of the urinary system.
3.	PC-5		The method of collecting and analyzing complaints, the patient's history, assessing the objective status of a patient with a disease of the urinary organs, methods, diagnostic possibilities of research methods and differential diagnostics of urinary diseases.	Conduct a survey and physical examination of the patient in the respiratory system. Assess the patient's condition to make a decision on the need to provide him with medical care. Outline the scope of additional studies in accordance with the prognosis of the disease, to clarify the diagnosis and obtain a reliable result. Interpret the data	Algorithm for assessing the state and establishing the fact of the presence of the disease. Methods of general clinical examination, interpretation of the results of laboratory and instrumental diagnostic methods.



4.	PC-6		<p>Modern classifications, clinical picture, features of the course and possible complications of diseases of the urinary organs. Criteria for diagnosis.</p> <p>Clinical and</p>	<p>of laboratory and instrumental methods of examination - about the general analysis of urine, urine according to Nechiporenko, urine according to Zemnitsky , tank. urine cultures, Rehberg 's tests , radiography and X-ray tomography, endoscopic methods, MRI tomography. Formulate a clinical diagnosis.</p> <p>Formulate a clinical diagnosis.</p> <p>Develop a plan of therapeutic action, taking into account the course of the disease and its treatment.</p>	<p>An algorithm for a detailed clinical diagnosis.</p>
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5.	PC-8		<p>pharmacological characteristics of the main groups of drugs and the rational choice of specific drugs in the treatment of the main pathological syndromes of diseases of the urinary organs.</p>	<p>Formulate indications for the chosen method of treatment, taking into account etiotropic and pathogenetic agents, substantiate pharmacotherapy in a particular patient with major pathological syndromes and emergency conditions, determine the route of administration, regimen and dose of drugs, evaluate the effectiveness and safety of the treatment. Choose an individual type of care for the treatment of a patient with a disease of the urinary organs in accordance with the situation: primary care, ambulance, hospitalization.</p> <p>Use methods of primary and secondary prevention in medical activities.</p>	<p>Algorithm for determining the tactics of managing patients with diseases of the urinary organs.</p>
	PC-9		<p>Fundamentals of the organization of medical (outpatient and inpatient) care for various groups of the population, the principles of medical examination of</p>		<p>Algorithm for the treatment of patients with</p>

6.			<p>patients with diseases of the urinary organs. Features of the organization and scope of work of an outpatient doctor, modern diagnostic capabilities of the outpatient service.</p> <p>Methods of carrying out urgent measures for diseases of the urinary organs.</p>	<p>Provide emergency care for kidney diseases (an attack of renal colic, with acute renal failure).</p>	<p>diseases of the urinary organs on an outpatient basis and in a day hospital.</p>
7.	PC-10		<p>Methods of intensive care for patients who have undergone a critical condition.</p>	<p>Conduct resuscitation in life-threatening conditions.</p>	<p>The main medical diagnostic therapeutic measures to provide medical care in acute conditions that are not accompanied by a threat to the life of patients with diseases of the urinary organs.</p>
8.	PC-11				<p>The main medical diagnostic therapeutic measures to provide medical care in conditions accompanied by a threat to the life of patients with diseases of</p>

					the urinary organs.
1.	OPK-8	Diseases of the circulatory system.	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 etiotropic and pathogenetic agents, to substantiate pharmacotherapy in a particular patient with a disease of the cardiovascular system.	Algorithm for the implementation of basic therapeutic measures for diseases of the cardiovascular system.
2.	OPK-9		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. Assess the parameters of the body systems.	Methods of general clinical examination, algorithm for diagnosing diseases of the cardiovascular system.
3.	PC-5		The methodology for collecting and analyzing complaints, the patient's history, assessing the objective status of a patient with a disease of the circulatory system, diagnostic methods, diagnostic possibilities of research methods and differential diagnostics of cardiovascular	Conduct a survey and physical examination of the patient on the cardiovascular system. Assess the patient's condition to make a decision on the need to provide him with medical care. Outline the scope of additional studies in accordance with the prognosis of the disease, to clarify the diagnosis and obtain a reliable result. Interpret the data of laboratory and instrumental	Algorithm for assessing the state and establishing the fact of the presence of the disease. Methods of general clinical examination, interpretation of the results of laboratory and instrumental diagnostic methods.

			diseases.	examination methods - ECG and ECG stress tests, daily monitoring of blood pressure and ECG, echocardiography , radiography and X-ray tomography , demonstrate work with a defibrillator . Formulate a clinical diagnosis.	
4.	PC-6		Modern classifications, clinical picture, course features and possible complications of diseases of the circulatory system. Criteria for diagnosis.	Formulate a clinical diagnosis.	An algorithm for a detailed clinical diagnosis.
5.	PC-8		Clinical and pharmacological characteristics of the main groups of drugs and the rational choice of specific drugs in the treatment of the main pathological syndromes of diseases of the circulatory system.	Develop a plan of therapeutic action, taking into account the course of the disease and its treatment. Formulate indications for the chosen method of treatment, taking into account etiotropic and pathogenetic agents, substantiate pharmacotherapy in a particular patient with major pathological syndromes and emergency conditions, determine the route of administration, regimen and dose	Algorithm for determining the tactics of managing patients with diseases of the circulatory system.



6.	PC-9		<p>Fundamentals of the organization of medical (outpatient and inpatient) care for various groups of the population, the principles of clinical examination of patients with diseases of the circulatory system.</p> <p>Features of the organization and scope of work of an outpatient doctor, modern diagnostic capabilities of the outpatient service.</p>	<p>of drugs, evaluate the effectiveness and safety of the treatment.</p> <p>Choose an individual type of care for the treatment of a patient with a disease of the circulatory system in accordance with the situation: primary care, ambulance, hospitalization.</p> <p>Use methods of primary and secondary prevention in medical activities.</p> <p>Provide emergency care for diseases of the cardiovascular system (hypertensive crisis of the 1st and 2nd order, anginal status, pulmonary edema)</p>	<p>Algorithm for the treatment of patients with diseases of the circulatory organs on an outpatient basis and in a day hospital.</p>
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7.	PC-10		<p>Methods of conducting urgent measures for diseases of the circulatory system.</p> <p>Methods of intensive care for patients who have undergone a critical condition.</p>	Conduct resuscitation in life-threatening conditions.	<p>The main medical diagnostic therapeutic measures to provide medical care in acute conditions that are not accompanied by a threat to the life of patients with diseases of the cardiovascular system.</p> <p>The main medical diagnostic therapeutic measures to provide medical care in conditions accompanied by a threat to the life of patients with cardiovascular diseases.</p>
8.	PC-11				
1.	OPK-8	Diseases of the digestive system	Choose an individual type of care for the treatment of a patient with a disease of the digestive system.	To formulate indications for the chosen method of treatment, taking into account etiotropic and pathogenetic agents, to substantiate pharmacotherapy in a particular patient with a disease of the digestive system.	Algorithm for the implementation of basic therapeutic measures for diseases of the digestive system.

2.	OPK-9		Definition, etiology, risk factors, pathogenesis of diseases of the digestive system.	To give a histophysiological assessment of the state of various cellular, tissue and organ structures. Assess the parameters of the body systems.	Methods of general clinical examination, algorithm for diagnosing diseases of the digestive system.
3.	PC-5		The methodology for collecting and analyzing complaints, the patient's history, assessing the objective status of a patient with a disease of the digestive system, methods of diagnostics, diagnostic capabilities of research methods and differential diagnostics of diseases of the digestive system.	<p>Conduct a survey and physical examination of the patient in the digestive system. Assess the patient's condition to make a decision on the need to provide him with medical care. Outline the scope of additional studies in accordance with the prognosis of the disease, to clarify the diagnosis and obtain a reliable result. Interpret the data of laboratory and instrumental methods of examination -d uodenal and gastric sounding, abdominal puncture, radiography of the abdominal organs, irrigoscopy , fluoroscopy of the stomach and X-ray tomography, endoscopic methods, MRI tomography.</p> <p>Formulate a clinical diagnosis.</p>	<p>Algorithm for assessing the state and establishing the fact of the presence of the disease. Methods of general clinical examination, interpretation of the results of laboratory and instrumental diagnostic methods.</p>

4.	PC-6		<p>Modern classifications, clinical picture, course features and possible complications of diseases of the digestive system. Criteria for diagnosis.</p>	<p>Develop a plan of therapeutic action, taking into account the course of the disease and its treatment.</p>	<p>An algorithm for a detailed clinical diagnosis.</p>
5.	PC-8		<p>Clinical and pharmacological characteristics of the main groups of drugs and the rational choice of specific drugs in the treatment of the main pathological syndromes of diseases of the digestive system.</p>	<p>Formulate indications for the chosen method of treatment, taking into account etiotropic and pathogenetic agents, substantiate pharmacotherapy in a particular patient with major pathological syndromes and emergency conditions, determine the route of administration, regimen and dose of drugs, evaluate the effectiveness and safety of the treatment.</p> <p>Choose an individual type of care for the treatment of a patient with a disease of the digestive system in accordance with the situation: primary care, ambulance, hospitalization.</p> <p>Use methods of</p>	<p>Algorithm for determining the tactics of managing patients with diseases of the digestive system.</p>

6.	PC-9		<p>Fundamentals of organizing medical (outpatient and inpatient) care for various groups of the population, the principles of clinical examination of patients with diseases of the digestive system. Features of the organization and scope of work of an outpatient doctor, modern diagnostic capabilities of the outpatient service.</p> <p>Methods of carrying out urgent measures for diseases of the digestive system.</p>	<p>primary and secondary prevention in medical activities.</p> <p>Provide emergency care for diseases of the digestive system (biliary colic, acute pancreatitis, gastrointestinal bleeding, hepatic coma and encephalopathy, bleeding from RVV ) .</p> <p>Conduct resuscitation in life-threatening conditions.</p>	<p>Algorithm for the treatment of patients with diseases of the digestive system on an outpatient basis and in a day hospital.</p> <p>The main medical diagnostic therapeutic measures to provide medical care in acute conditions that are not accompanied by a threat to the life of patients with diseases of</p>
7.	PC-10		<p>Methods of intensive care for patients who have undergone a critical condition.</p>		



8.	PC-11				<p>the digestive system.</p> <p>The main medical diagnostic therapeutic measures to provide medical care in conditions accompanied by a threat to the life of patients with diseases of the digestive system.</p>
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### 3. The place of discipline in the structure of the educational program

The academic discipline "Hospital Therapy" refers to the basic part of Block No. 1 of the program of the Federal State Educational Standard of Higher Education majoring in Medicine.

Types of professional activity that underlie the teaching of this discipline:

1. medical;
2. organizational and managerial;
3. research.

### 4. Scope of discipline

№		Total	Total hours	Semesters
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№ n / n	Type of work	credits		IX	X	XI	XII
				hours	hours	hours	hours
1	2	3	four	5	6	7	eight
1	<b>Contact work of students with teacher (total), including:</b>		312	48	72	96	96
2	Lectures (L)		54	ten	16	eighteen	ten
3	Clinical Practice (PP)		258	38	56	78	86
4	Seminars (C)						
5	Laboratory work (LR)						
6	<b>Student Independent Work (SIW)</b>		156	24	36	48	48
7	<b>Type of intermediate attestations</b>	credit (G)					
		exam (E)	36				36
8	<b>TOTAL:</b> Total laboriousness	hours		72	108	144	180
		Z	fourteen	2	3	four	5

## 5. The content of the discipline

n / №.	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 progress control ( by week of the semester)
			L	LR	PZ	SRS	Total	
1.	2	3	four	5	6	7	eight	9
1.	IX	<b>Respiratory diseases:</b> 1. Clinical interpretation of data from additional research methods in the diagnosis of lung diseases. 2. Differential diagnosis of broncho -obstructive syndrome. Bronchial asthma. Classification, diagnosis, differentiated treatment of bronchial asthma, status asthmaticus. 3. Differential diagnosis in acute inflammatory lung diseases. 4. Differential diagnosis and treatment of diffuse ( disseminated ) lung lesions. 5. Differential diagnosis and treatment of cor pulmonale. 6. Modular lesson.	ten	-	38	24	72	Oral questioning, tests, written and computer testing, solving situational problems, clinical reviews of patients, participation of students in the rounds of the head. department and associate professors, individual homework

2.	X	<b>Diseases of the urinary organs:</b> 1. Clinical interpretation of data from additional research methods in the diagnosis of kidney diseases. 2. Differential diagnosis of the main pathological syndromes in nephrology. 3. Differential diagnosis with changes in urinary sediment. 4. Differential diagnosis and differentiated treatment of pyelonephritis and glomerulonephritis . 5. Differential diagnosis in nephrotic syndrome. 6. Differential diagnosis of pathological conditions accompanied by azotemia. 7. Differential diagnosis of kidney damage in diabetes mellitus, systemic connective tissue diseases. 8. Differential diagnosis in coma. 9. Modular lesson.	16	-	56	36	108	Oral questioning, tests, written and computer testing, solving situational problems, clinical reviews of patients, participation of students in the rounds of the head. department and associate professors, individual homework
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3.	XI	<b>Diseases of the circulatory system:</b> 1. Modern view on the problem of etiology, pathogenesis and treatment of atherosclerosis. 2. Differential diagnosis for pain in the chest. 3. Differential diagnosis of angina pectoris. Differentiated treatment of angina pectoris. 4. Differential diagnosis of myocardial infarction, emergency therapy in the acute period. Complications of myocardial infarction, differentiated methods of treatment. 5. Differential diagnosis and treatment of cardiac rhythm and conduction disorders. 6. Differential diagnosis of the main syndromes in CHF. Treatment of CHF. 7. Differential diagnosis in arterial hypertension. Differentiated treatment of hypertension. Treatment of hypertensive crises. 8. Differential diagnosis and treatment of arterial hypotension. 9. Differential diagnosis for murmurs in the region of the heart. 10. Differential diagnosis in cardiomegaly . 11. Differential diagnosis and treatment of non-coronary myocardial lesions. 12. Modular lesson.	eigh teen	-	78	48	144	Oral questioning, tests, written and computer testing, solving situational problems, clinical reviews of patients, participation of students in the rounds of the head. department and associate professors, individual homework
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4.	XII	<b>Diseases of the digestive system:</b> 1. Clinical interpretation of these additional research methods in the diagnosis of diseases of the digestive system. 2. Differential diagnosis With the syndrome of gastric dyspepsia. Functional dyspepsia, chronic gastritis, peptic ulcer. 3. Differential diagnosis of complications of peptic ulcer, differentiated treatment for peptic ulcer. 4. Differential diagnosis and treatment of diseases of the biliary tract and pancreas. 5. Differential diagnosis in jaundice . 6. Differential diagnosis and treatment of diseases manifested by hepatomegaly and hepatolienal syndrome. Cirrhosis of the liver, diagnosis and treatment. 7. Differential diagnosis in intestinal dyspepsia. 8. Modular lesson. 9. Fever of unknown origin. 10. Metabolic syndrome. 11. Arterial hypertension in elderly and senile patients. 12. Clinic, differential diagnosis of heart diseases in the elderly and senile age. 13. Features of the treatment of patients in the elderly and senile age. 14. Modular lesson.	ten	-	86	48	144	Oral questioning, tests, written and computer testing, solving situational problems, clinical reviews of patients, participation of students in the rounds of the head. department and associate professors, individual homework
		<b>TOTAL:</b>	<b>54</b>	<b>-</b>	<b>258</b>	<b>156</b>	<b>468</b>	

**6. The list of educational and methodological support for independent work of students in the discipline**

No./p	semester number	Name of educational and methodical development
1	IX	<b>Z . T . Astakhova , Zh . A . Kulova , D. _ C . Zagalova , D. _ K. _ Gadieva , V. _ A . Aidarova</b> <b>Methodological developments in pulmonology in the course of hospital therapy.</b> Z.T.Astakhova , Z.A.Toguzova , I.B.Tuaeva and others. "Classification of diseases of internal organs." - Vladikavkaz, 2007. - Recommended by the UMO for medical and pharmaceutical education of Russian universities.
2	X	<b>Z . T . Astakhova , Zh . A . Kulova , D. _ C . Zagalova , G. _ C . Turiev , F. _ U . Kanukov</b> <b>Methodological developments in nephrology in the course of hospital therapy.</b> Z.T.Astakhova , Z.A.Toguzova , Zh.A.Kulova and others. "Methodological recommendations for classes in emergency therapy for students of the VI course" .-

		<p>Vladikavkaz, 2012.- TSUMK of therapeutic disciplines.</p> <p>Z.T.Astakhova , Zh.A.Kulova , Z.Z.Dzukaeva and others. "Methodological instructions for students of the VI course of the medical faculty in the cycles of gastroenterology and nephrology" .- Vladikavkaz, 2012.- TSUMK of therapeutic disciplines.</p> <p>Z.T. Astakhova , Z.Z. Dzukaeva and others. "Differential diagnosis of edematous syndrome." Educational and methodological development for self-preparation of students for a practical lesson .- Vladikavkaz, 2012.-TsUMK therapeutic disciplines.</p> <p>Z.T.Astakhova , Zh.A.Kulova . "Acute renal failure". Educational and methodological development for self-preparation of students for a practical lesson .- Vladikavkaz, 2012.-TsUMK therapeutic disciplines.</p> <p>Z.T.Astakhova , Zh.A.Kulova . "Kidney pathology in connective tissue diseases, diabetes mellitus, blood diseases". Educational and methodological development for self-preparation of students for a practical lesson .- Vladikavkaz, 2013.-TsUMK therapeutic disciplines.</p> <p>Z.T. Astakhova , Zh.A. Kulova and others. "Research methods in nephrology." Educational and methodological development for self-preparation of students for a practical lesson .- Vladikavkaz, 2014.-TsUMK therapeutic disciplines.</p> <p>Z.T. Astakhova , I.B. Tuaeva and others. "Main pathological syndromes in nephrology, research methods." Educational and methodological development for self-preparation of students for a practical lesson .- Vladikavkaz, 2012.-TsUMK therapeutic disciplines.</p> <p>Z.T. Astakhova , Zh.A. Kulova and others. "Nephrotic syndrome, differential diagnosis of kidney damage in systemic diseases." Educational and methodological development for self-preparation of students for a practical lesson .- Vladikavkaz, 2012.-TsUMK therapeutic disciplines.</p> <p>Z.T. Astakhova , Zh.A. Kulova and others. "Kidney damage in diabetes mellitus." Educational and methodological development for self-preparation of students for a practical lesson .- Vladikavkaz, 2012.-TsUMK therapeutic disciplines.</p> <p>Z.T. Astakhova , Z.A. Toguzova and others. "Principles of diagnosis, differential diagnosis and treatment of glomerulonephritis ". Educational and methodological development for self-preparation of students for a practical lesson .- Vladikavkaz, 2012.-TsUMK therapeutic disciplines.</p> <p>Z.T. Astakhova , Zh.A. Kulova and others. "Acute renal failure." Educational and methodological development for self-preparation of students for a practical lesson .- Vladikavkaz, 2012.-TsUMK therapeutic disciplines.</p> <p>Z.T. Astakhova , Zh.A. Kulova and others. "Chronic renal failure." Educational and methodological development for self-preparation of students for a practical lesson .- Vladikavkaz, 2012.-TsUMK therapeutic disciplines.</p>
3	XI	<p><b>Z . T . Astakhova , Z. _ Z . Dzukaeva , D. _ K. _ Gadieva , Zh . A . Kulova</b></p> <p><b>Methodological developments in gastroenterology in the course of hospital therapy.</b></p> <p>Z.T. Astakhova , Z.Z. Dzukaeva , Zh.A. Kulova and others. "Cirrhosis of the liver" . - methodological manual, Vladikavkaz, 2012 . - TSUMK therapeutic disciplines.</p> <p>Z.T.Astakhova , Z.Z.Dzukaeva , Zh.A.Kulova and others. "Peptic ulcer" .- Vladikavkaz, 2011. - TSUMK therapeutic disciplines.</p> <p>Z.T.Astakhova , Z.Z.Dzukaeva , Zh.A.Kulova , T.N.Koshlyakova and others. "Differential diagnosis of jaundice ” .- Vladikavkaz, 2014.- TSUMK of therapeutic disciplines.</p>

		<p>Z.T. Astakhova , Z.Z. Dzukaeva , Zh.A. Kulova and others. "Pancreatitis" .- Vladikavkaz, 2013.- TSUMK of therapeutic disciplines.</p> <p>Z.T. Astakhova , Z.Z. Dzukaeva , Zh.A. Kulova et al. "Intestinal diseases" .- Vladikavkaz, 2015.- TSUMK of therapeutic disciplines.</p> <p>Z.T. Astakhova , Z.Z. Dzukaeva , Zh.A. Kulova and others. "Diseases of the biliary tract" .- Vladikavkaz, 2016.- TSUMK therapeutic disciplines.</p> <p>Z.T.Astakhova , Z.A.Toguzova , Zh.A.Kulova and others. "Methodological recommendations for classes in emergency therapy for students of the VI course" .- Vladikavkaz, 2014.- TSUMK of therapeutic disciplines.</p> <p>Z.T.Astakhova , Zh.A.Kulova , Z.Z.Dzukaeva and others. "Methodological instructions for students of the VI year of the medical faculty in the cycles of gastroenterology and nephrology" .- Vladikavkaz, 2014.- TSUMK of therapeutic disciplines.</p> <p>Z.T. Astakhova , Z.Z. Dzukaeva , I.B. Tuaeva and others. "Differential diagnosis of dyspeptic syndrome." Educational and methodological development for self-preparation of students for a practical lesson .- Vladikavkaz, 2014.-TsUMK therapeutic disciplines.</p> <p>Z.T.Astakhova , Z.Z.Dzukaeva . "Diseases of the esophagus". Educational and methodological development for self-preparation of students for a practical lesson .- Vladikavkaz, 2012.-TsUMK therapeutic disciplines.</p> <p>Z.T.Astakhova , Z.Z.Dzukaeva . "Nonspecific ulcerative colitis. Crohn's disease". Educational and methodological development for self-preparation of students for a practical lesson .- Vladikavkaz, 2013.-TsUMK therapeutic disciplines.</p> <p>Z.T.Astakhova , Z.Z.Dzukaeva . "Biliary dyskinesia". Educational and methodological development for self-preparation of students for a practical lesson .- Vladikavkaz, 2014.-TsUMK therapeutic disciplines.</p> <p>Z.T.Astakhova , Z.Z.Dzukaeva . "Cirrhosis of the liver". Educational and methodological development for self-preparation of students for a practical lesson .- Vladikavkaz, 2013.-TsUMK therapeutic disciplines.</p> <p>Z.T.Astakhova , Z.Z.Dzukaeva . "Enterocolitis". Educational and methodological development for self-preparation of students for a practical lesson .- Vladikavkaz, 2014.-TsUMK therapeutic disciplines.</p>
4	XII	<p><b>Z.T.Astakhova , Zh.A.Kulova , Z.A.Toguzova , M.M.Besaeva</b>  <b>Methodological developments in cardiology in the course of hospital therapy.</b></p> <p>Z.T. Astakhova , A.V. Rappoport , I.B. Tuaeva and others. "Myocardial infarction" - a methodological guide, Vladikavkaz, 2012. - TsUMK of 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>Z.T.Astakhova , Z.A.Toguzova , Zh.A.Kulova and others. "Methodological recommendations for classes in emergency therapy for students of the VI course" .- Vladikavkaz, 2012.- TSUMK of therapeutic disciplines.</p> <p>Z.T. Astakhova , I.B. Tuaeva , A.V. Rappoport et al. "Methodological guidelines on cardiology for practical training of students of the VI course" .- Vladikavkaz, 2012.- TSUMK of therapeutic disciplines.</p> <p>Z.T.Astakhova , Zh.A.Kulova and others. " Cardiomyopathy ". Educational and methodological development for self-preparation of students for a practical lesson .- Vladikavkaz, 2013.-TsUMK therapeutic disciplines.</p>

		<p>Z.T. Astakhova , Z.A. Toguzova and others. "IHD. myocardial infarction". Educational and methodological development for self-preparation of students for a practical lesson .- Vladikavkaz, 2012.-TsUMK therapeutic disciplines.</p> <p>Z.T. Astakhova , Z.A. Toguzova and others. "Complications of myocardial infarction." Educational and methodological development for self-preparation of students for a practical lesson .- Vladikavkaz, 2013.-TsUMK therapeutic disciplines.</p> <p>Z.T. Astakhova , A.V. Rappoport and others. "Violation of the function of automatism." Educational and methodological development for self-preparation of students for a practical lesson .- Vladikavkaz, 2013.-TsUMK therapeutic disciplines.</p> <p>Z.T. Astakhova , A.V. Rappoport and others. " Non- coronary diseases of the myocardium - myocarditis, endocarditis, pericarditis." Educational and methodological development for self-preparation of students for a practical lesson .- Vladikavkaz, 2012.-TsUMK therapeutic disciplines.</p> <p>Z.T. Astakhova , I.B. Tuaeva and others. "Genesis of the main teeth, intervals and segments of the ECG. El . about the heart. ECG signs of hypertrophy. Educational and methodological development for self-preparation of students for a practical lesson .- Vladikavkaz, 2012.-TsUMK therapeutic disciplines.</p> <p>Z.T. Astakhova , I.B. Tuaeva and others. "Violation of the excitability function." Educational and methodological development for self-preparation of students for a practical lesson .- Vladikavkaz, 2012.-TsUMK therapeutic disciplines.</p> <p>Z.T. Astakhova , Zh.A. Kulova et al. "Abramov- Fiedler 's idiopathic myocarditis ". Educational and methodological development for self-preparation of students for a practical lesson .- Vladikavkaz, 2006.-TsUMK therapeutic disciplines.</p>
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**7. Fund of assessment tools for conducting intermediate certification of students in the discipline**

No./ p _	List of competencies	No. semester	Indicator (s ) evaluation	Evaluation criteria (s )	Evaluation scale	Name FOS
1	2	3	four	5	6	7
1.	OPK-8 OPK-9 PC-5 PC-6 PC-8 PC-9 PC-10 PC-11	X	See Standard for assessing the quality of education, approved. By order of the Federal State Budgetary Educational Institution of Higher Education SOGMA of the Ministry of Health of Russia dated July 10, 2018, No. 264/0	See Standard for assessing the quality of education, approved. By order of the Federal State Budgetary Educational Institution of Higher Education SOGMA of the Ministry of Health of Russia dated July 10, 2018, No. 264/0	See Standard for assessing the quality of education, approved. By order of the Federal State Budgetary Educational Institution of Higher Education SOGMA of the Ministry of Health of Russia dated July 10, 2018, No. 264/0	Exam tickets for offset, test tasks, control tasks, analyses.
2.	OPK-8 OPK-9 PC-5 PC-6 PC-8 PC-9	XII	See Standard for assessing the quality of education, approved. By order of the	See Standard for assessing the quality of education , at tv . By order of the Federal	See Standard for assessing the quality of education, approved. By order of the	Exam tickets for offset, test tasks, control tasks, ECG.

	PC-10 PC-11		<b>Federal State Budgetary Educational Institution of Higher Education SOGMA of the Ministry of Health of Russia dated July 10, 2018, No. 264/0</b>	<b>State Budgetary Educational Institution of Higher Education SOGMA of the Ministry of Health of Russia dated July 10, 2018, No. 264/0</b>	<b>Federal State Budgetary Educational Institution of Higher Education SOGMA of the Ministry of Health of Russia dated July 10, 2018, No. 264/0</b>	
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## 8. The list of basic and additional educational literature necessary for mastering the discipline

### Main literature

n / №.	Name	The authors)	Year, place of publicatio n	Number of copies	
				in the library	at the department
1	2	3	four	7	eight
1.	Internal diseases: textbook: in 2 volumes	Ed. V.S. Moiseeva	M., GEOTAR- Media, 2012, M., GEOTAR- Media, 2013.	T.1-52 T.2-52	2
2.	Internal diseases: textbook.	V.I. Makolkin , S.I. Ovcharenko	M.: GEOTAR- Media, 2011 M.: GEOTAR- Media, 2013	99  twenty "Student Advisor" <a href="http://www.studmedlib.ru/ru/book/ISBN9785970425763.html">http://www.studmedlib.ru/ru/book/ISBN9785970425763.html</a> —	2  one
3.	Hospital therapy, textbook.	Ed. V.A. Lyusova	M.: GEOTAR- Media, 2010.	one "Student Advisor" <a href="http://www.studmedlib.ru/ru/book/ISBN978">http://www.studmedlib.ru/ru/book/ISBN978</a>	2



				<a href="http://www.studmedlib.ru/ru/book/ISBN9785970425763.html">5970425763.html</a>	
4.	Internal illnesses. 333 test tasks and comments to them. Tutorial.	Ed. L.I. Dvoretzky	M.: GEOTAR-Media, 2010	one "Student Advisor" <a href="http://www.studmedlib.ru/ru/book/ISBN9785970425763.html">http://www.studmedlib.ru/ru/book/ISBN9785970425763.html</a>	one
5.	"Cardiology": national leadership	Yu.N.Belenkov , G.G.Oganov	M.: GEOTAR-Media, 2007  M.: GEOTAR-Media, 2015	ten  one	one

**additional literature**

n / №.	Name	The authors)	Year, place of publicati on	Number of copies	
				in library	at the department
1	2	3	four	7	eight
1.	Guidelines for students of the 6th year of the medical faculty on the cycles of gastroenterology and nephrology.	Department of Internal Diseases No. 4, Z.T. Astakhova .	Vladikavkaz, 20012	thirty	16
2.	Guidelines for students of the 6th year of the Faculty of 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	V.I. Petrov .	M.: GEOTAR	one	-

	real medical practice: a master class : in the textbook .		-Media, 2011. M.: GEOTAR -Media, 2015	3	-
5.	Internal illnesses. Laboratory and instrumental diagnostics: textbook . n special.	Roitberg G.E.	M.: MED-press-inform , 2011	2	-
6.	Guide to cardiology: textbook . n specialty T1.	Podyu ed. G.I.Strozhakova	M.: GEOTAR -Media, 2008	12	one
7.	Guide to cardiology: textbook . n specialty T2.	Podyu ed. G.I.Strozhakova	M.: GEOTAR -Media, 2008	3	one
8.	Guide to cardiology: textbook . n specialty T3.	Podyu ed. G.I.Strozhakova	M.: GEOTAR -Media, 2009	3	one

## 9. List of resources of the information and telecommunication network "Internet" necessary for mastering the discipline

### 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>

Standards of care: <http://www.rspor.ru/index.php?mod1=standards3&mod2=db1>

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

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

Vidal's Handbook . Medicines in Russia: <http://www.vidal.ru>

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

-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 Therapists - <http://www.rnmot.ru/>

### Electronic versions of journals:

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

"Bulletin of Evidence-Based [Medicine](http://www.evidence-update.ru/) " <http://www.evidence-update.ru/>  
 " Doctor " - <http://www.rusvrach.ru/journals/vrach>  
 "Evidence-based cardiology" - <http://www.mediasphere.en/journals/dokcard>  
 "Pulmonology" - <http://www.withonsilium-medicum.com/media/pulmo>  
 " [Russian Journal of Gastroenterology](http://www.m-vesti.ru/rggk/rggk.html) , Hepatology , Coloproctology " - <http://www.m-vesti.ru/rggk/rggk.html>  
 "Russian Medical Journal" - <http://www.rmj.en>  
 "Handbook of the polyclinic doctor" - <http://www.withonsilium-medicum.com/media/refer>  
 "Difficult patient" - <http://www.t-pacient.ru>  
 " Farmateka " - <http://www.pharmacy.en>

## **10. Guidelines for students on mastering the discipline**

Training consists of classroom lessons (312 hours), including a lecture course and practical exercises, and independent work (156 hours). The main study time is allocated to practical work to provide qualified medical care to patients and to provide emergency medical care in urgent conditions.

At the study of the discipline uses 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 and masters the practical skills to formulate a clinical diagnosis, develop a plan of therapeutic actions, formulate indications to the chosen method of treatment, taking into account etiotropic and pathogenetic agents, to substantiate pharmacotherapy in a particular patient with major pathological syndromes and emergency conditions.

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

The main method of teaching students in the 6th year is the student's independent work at the bedside under the guidance of a teacher. Along with this , the development of diagnostic research methods in the main sections of internal medicine is actively used in functional diagnostics rooms, radiological rooms, clinical and biochemical laboratories; participation in clinical and pathological conferences; participation in professorial rounds; registration of medical documentation; participation in thematic rounds and clinical reviews of patients; conducting seminars on cycles: cardiology, nephrology, gastroenterology, pulmonology, hematology, functional diagnostics, exercise therapy and medical supervision with the basics of manual therapy; conducting credit classes and general certification in practical skills; participation of students in scientific work.

Clinical analysis of the patient at lectures and practical classes is accompanied by a demonstration and detailed analysis of the results of additional research methods, while it is mandatory to participate in the analysis of students, 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 variant.

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 classes.

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

department.

The initial level of knowledge of students is determined by testing, the current control of mastering the subject is determined by an oral survey during classes, during clinical reviews, when solving typical situational problems 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. List of information technologies used in the implementation of the educational process in the discipline**

<b>Semester</b>	<b>Type of occupation L, PR ,S ,</b>	<b>Used educational technologies (active, interactive)</b>	<b>Number of hours</b>	<b>% of classes in an interactive form</b>	<b>Software List</b>
<b>IX-XII</b>	<b>L</b>	A set of slides, videos for a traditional lecture, visualization lectures and - in FOS + methodological recommendations for teachers.	54	twenty	Microsoft Office PowerPoint; Internet Explorer
<b>IX-XII</b>	<b>PZ</b>	A set of questions and tasks for a practical task, a test shell for test control, a set of situational tasks for APs, a set of subjects for SRW, a set of case histories for the analysis of clinical cases, a set of material for business and role-playing games.	258	twenty	Microsoft office PowerPoint ; Internet explorer All-Russian Educational Internet Program a- "Internist"
<b>IX-XII</b>	<b>FROM</b>	Questions and tasks for business and role-playing educational games, set thematic plans for research work of students.	156	fifteen	Microsoft office PowerPoint ; Internet explorer All-Russian Educational Internet programs a- "Internist".

#### **12. Description of the material and technical base necessary for the implementation of the educational process in the discipline**

The Department of Internal Diseases No. 4 is located on the basis of the cardiology, gastroenterology and nephrology departments of the Republican Clinical Hospital.

The department has 176 beds: 120 - cardiology, 40 nephrology - 40 - gastroenterology. 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 teaching 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. ). The department has at its disposal: 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 - No. 2 - 15.66 sq.m. , No. 3 - 15.66 sq.m. .m ., No. 4 - 9.37 sq.m. , No. 5 - 21.09 sq.m. on the territory of the cardiology building, as well as one training room each in the departments of gastroenterology and nephrology), a functional diagnostics laboratory (33, 06 sq.m. ), daily monitoring laboratory 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's room (8.7 sq.m.). m .). In specialized departments (cardiology, nephrology, gastroenterology, functional diagnostics, pulmonology) there are study rooms equipped with appropriate methodological aids (stands, tables, modular components), which allow to fully master the material.

In addition to educational and methodological information, visual media presents: 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 study rooms, a list of topics submitted for self-study by students, a list of questions for the IGA, a schedule for teachers and assistants on duty, a schedule for consultations and working off. Stands reflect the current activities of the department and are regularly updated.

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

No.	equipment identification	Quantity	Technical condition
<b>Special equipment</b>			
1	bicycle ergometer	one	satisfies.
2	Kodoscope , pcs.	2	satisfies.
3	ECG, pcs.	one	satisfies.
4	Computer-diagnostic system " Valenta "	one	satisfies.
5	Complex "Diamond"	one	satisfies.

6	pressure monitor ( holter )	one	satisfies.
7	ECG monitor ( holter )	one	satisfies.
8	Probes duodenal and gastric	2	satisfies.
<b>dummies</b>			
1	Surgical UZFO phantom model	one	satisfies.
2	Pulmonary simulator for IVL and chest compressions	one	satisfies.
3	Universal Head Trainer	one	satisfies.
4	Proctological simulator	one	satisfies.
	Tables, pcs.	28	satisfies.

### **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 training sessions in full-time mode, it is possible to study this discipline or part of it using e-learning and distance learning technologies.

Teaching discipline in the situations described above 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, current monitoring of progress, as well as intermediate certification of students, the 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 practical classes is possible online both in synchronous and asynchronous mode. Seminars can be held in the form of web - conferences.