

**FEDERAL STATE BUDGETARY
EDUCATIONAL INSTITUTION OF HIGHER EDUCATION
“AMUR STATE MEDICAL ACADEMY”
MINISTRY OF HEALTH OF THE RUSSIAN FEDERATION**

AGREED

Vice-Rector for Academic Affairs,

 N.V. Loskutova

April 17, 2025

Decision of the CCMC
April 17, 2025

Protocol No. 7

APPROVED

by decision of the Academic Council of
the FSBEI HE Amur SMA of the Ministry
of Health of the Russian Federation'

April 22, 2025

Protocol No. 15

Acting Rector of the FSBEI HE Amur
SMA of the Ministry of Health of the
Russian Federation



I.V. Zhukovets

April 22, 2025

EDUCATIONAL PROGRAM

industrial practice

«Practice of the therapeutic profile. Assistant to a hospital physician»

Specialty: 31.05.01 General Medicine

Course: 4

Semester: 8

Total hours: 72hrs.

Total credits: 2credit units

Control form: credit, 8 semester

Blagoveshchensk, 2025

The educational program of the discipline is designed in accordance with the requirements of the Federal State Educational Standard of Higher Education - specialist in specialty 31.05.01 General Medicine, approved by the order of the Ministry of Education and Science of Russia dated 08.12.2020 No. 988 (registered with the Ministry of Justice of Russia on 08.26.2020 No. 59493), BPEP HE (2021).

Authors:

Head of the Department of Faculty and Polyclinic Therapy, Holder of an Advanced Doctorate in Medical Sciences, Associate Professor, V.I. Pavlenko
Associate Professor of the Department of Faculty and Polyclinic Therapy, Ph.D. of Medical Sciences, E.G. Kulik

Reviewers:


Head of the Department of Propaedeutics of Internal Medicine of the FSBEI HE Amur SMA, Professor, Holder of an Advanced Doctorate in Medical Sciences, Professor, I.G. Menshikova

Head of the Department of Hospital Therapy with a Course in Pharmacology of the FSBEI HE Amur SMA, Holder of an Advanced Doctorate in Medical Sciences, Professor, V.V. Voitsekhovskiy

Deputy Chief Physician for Medical Affairs of the State Autonomous Healthcare Institution of the Amur Region «Blagoveshchensk City Clinical Hospital» T.S. Orlova

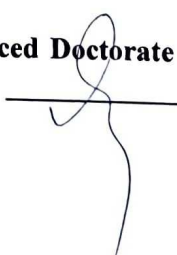
APPROVED at the meeting of the Department of Faculty and Polyclinic Therapy,
Protocol No. 6 dated April 03, 2025

Head of the Department of Faculty and Polyclinic Therapy, Holder of an Advanced Doctorate in Medical Sciences, Associate Professor


V.I. Pavlenko

Conclusion of the Expert Commission on the review of the Educational Programs:
Protocol No. 1 dated April 16, 2025

Expert of the expert commission, Holder of an Advanced Doctorate in Medical Sciences, Associate Professor


E.E. Molchanova

APPROVED at the meeting of the CMC No 3
Protocol No. 6 dated April 17, 2025

Chairman of the CMC No. 1

Holder of an Advanced Doctorate in Medical Sciences, Professor


V.V. Voitsekhovskiy

AGREED: Dean of the Faculty of Medicine,
Ph.D. of Medical Sciences, Associate Professor


N.G. Brush

May 27, 2025

CONTENT

1	Explanatory note	4
1.1.	Characteristic practices	4
1.2.	The purpose and objectives of the practice	4
1.3.	The place of practice in the structure of the main professional educational program of higher education	5
1.4.	Forms control of practice	5
1.5.	Practice Reporting Forms	5
1.6.	Requirements for students	5
1.7.	Interdisciplinary connections of practice with subsequent disciplines/practices	10
1.8.	Requirements for the results of the internship	11
1.9.	Stages of competence formation and descriptions of assessment scales	15
2	Structure and content practices	15
2.1.	Volume practices	15
2.2.	Type of practice	15
2.3.	Criteria ratings knowledge students	16
3	Educational, methodological, logistical and informational support for practice	17
3.1.	Main literature	17
3.2.	Additional literature	17
3.3.	Educational and methodological support for practice, prepared by the department staff	18
3.4.	Material and technical base for conducting internships	18
3.5.	Professional databases, information and reference systems, electronic educational resources	20
3.6.	Licensed and freely distributed software used in the educational process	24
3.7.	Resources of the information and telecommunications network "Internet"	25
4	Assessment tools fund	25
4.1.	Examples of test tasks for intermediate knowledge control	25
4.2.	List of practical skills that a student should have after completing an internship	26
4.3.	List of questions for the test	26

1. EXPLANATORY NOTE

1.1. Characteristics of practice

Today, the reform of healthcare and higher medical education requires training qualified doctors who are able to solve complex issues of early diagnostics, rational treatment and prevention of various diseases. Knowledge of the basics of clinical medicine, which are taught at the Department of Faculty and Outpatient Therapy, is important for training doctors of all specialties, contributing to the better formation of clinical thinking, medical deontology, consolidation of skills in examining patients, timely decision-making on the appointment of treatment and the provision of medical care in urgent conditions. Industrial practice "Practice of the therapeutic profile. Assistant of the hospital physician" is carried out in order to obtain professional skills and experience of professional activity: verification and consolidation of knowledge obtained in the study of the main clinical and theoretical disciplines, further deepening and improvement of practical skills acquired at the Academy, familiarization with the organization of diagnostic, therapeutic, anti-epidemic and sanitary-educational work in regional, city, district hospitals, clinics, ambulance stations, formation of universal, general professional and professional competencies.

The area of professional activity and spheres of professional activity in which graduates who have mastered the specialist program can carry out professional activities: healthcare (in the field of providing primary health care to the population in medical organizations: clinics, outpatient clinics, inpatient and outpatient institutions of the municipal health care system and medical and preventive institutions providing primary health care to the population);

Types of professional activity for which graduates of specialist programs are prepared: medical; scientific research; organizational and managerial.

A graduate who has mastered the specialist program is ready to solve the following professional tasks in accordance with the type(s) of professional activity that the specialist program is focused on:

medical activities: prevention of the occurrence of diseases among the population by carrying out preventive and anti-epidemic measures; participation in the provision of emergency medical care in conditions requiring urgent medical intervention; the formation of motivation in the population, patients and their family members aimed at maintaining and strengthening their health and the health of others; teaching patients basic hygienic measures of a health-improving nature that help prevent the occurrence of diseases and strengthen health;

research activities: analysis of scientific literature and official statistical reviews, participation in statistical analysis and public presentation of the results obtained;

organizational and managerial activities: creation of favorable conditions in medical organizations for the stay of patients and the work of medical personnel; maintenance of medical records in medical organizations; compliance with basic information security requirements;

The objects of professional activity of graduates of the specialist program are:

- individuals (patients) aged 15 to 18 years and over 18 years (hereinafter referred to as adolescents and adults);
- population;
- a set of tools and technologies aimed at creating conditions for protecting the health of citizens.

1.2. Purpose and objectives of the practice

The purpose of the internship is to acquire professional skills and experience in professional activities: testing and consolidating knowledge gained in the study of basic clinical and theoretical disciplines, further deepening and improving practical skills acquired at the Academy, familiarization with the organization of diagnostic, therapeutic, anti-epidemic and sanitary-educational work in regional, city, district hospitals, clinics, ambulance stations, the formation of universal, general professional and professional competencies.

Objectives of the practice:

- 1) to consolidate the acquired knowledge about the etiology, pathogenesis, classification, clinical manifestations, complications, diagnostics, treatment of the main acute therapeutic diseases and prevention of postoperative complications, provision of emergency care in urgent conditions within the studied nosological forms and teach how to use them in the practical activities of a physician in a therapeutic hospital;
- 2) to develop students' skills in examining a medical patient;
- 3) to develop independent clinical thinking (the ability to establish and justify a clinical diagnosis based on the collected information about the patient, prescribe an examination, treatment, conduct a differential diagnosis, and provide assistance in urgent conditions);
- 4) participate in events to develop positive behavior among the population aimed at maintaining and improving health, motivation to introduce elements of a healthy lifestyle and eliminate bad habits;
- 5) learn to communicate and interact with society, the team, family, partners, patients and their relatives, taking into account ethics and deontology depending on the identified pathology and characterological features;
- 6) familiarize yourself with preventive and anti-epidemic measures aimed at preventing the occurrence of non-infectious, infectious, parasitic and occupational diseases;
- 7) acquire skills in health education work among the population and medical personnel in order to develop a healthy lifestyle;
- 8) improve skills in preparing medical documentation, working with educational scientific, reference, medical, scientific literature and official statistical reviews, including on the Internet.

1.3. Place of practice in the structure of the OPO VPO of the Academy

In accordance with the Federal State Educational Standard of Higher Education (2020), industrial practice of 4th-year students Industrial practice "Practice of the therapeutic profile. Assistant to a hospital doctor" is carried out and refers to the basic part, Block 2. The total workload is 2 credits (72 hours), taught in the 8th semester in the 4th year. The form of control is a test with an assessment in the 8th semester.

1.4. Forms of practice control

Current monitoring of students' implementation of the internship program is carried out daily by internship supervisors in the form of monitoring the maintenance of internship diaries, registration of medical records, and acquisition of practical skills.

Interim assessment (test with assessment), consisting of a theoretical part - an interview on theoretical questions, testing in the Moodle system; a practical part - checking the acquisition of practical skills and abilities, assessment of reporting forms.

1.5. Practice reporting forms

The forms of reporting on practice are the industrial practice diary and the calendar schedule for completing the practice.

1.6. Requirements for students

To master the practice, knowledge, skills and abilities formed by previous disciplines are necessary:

Latin
Knowledge : basic medical and pharmaceutical terminology in Latin.
Skills : apply knowledge to solve professional problems
Skills : applies medical and pharmaceutical terminology in Latin in professional activities

Professional foreign language
Knowledge: basic medical and pharmaceutical terminology in a foreign language
Skills : apply knowledge to communication and obtaining information from foreign sources
Skills: applies medical and pharmaceutical terminology in a foreign language in professional activities
History of Medicine
Knowledge: outstanding figures in medicine and health care, Nobel laureates, outstanding medical discoveries in the field of therapy, the influence of humanistic ideas on medicine
Skills: competently and independently present and analyze the contribution of domestic scientists to the development of therapy
Skills: applies knowledge about Nobel laureates, scientists, discoveries in the field of therapy, in professional activities
Philosophy
Knowledge: methods and techniques of philosophical analysis of problems; forms and methods of scientific knowledge, their evolution; basic patterns and trends in the development of the world historical process; laws of dialectical materialism in medicine
Skills: to correctly and independently express, analyze the forms and methods of scientific knowledge and the laws of dialectical materialism in medicine
Skills: applies methods and techniques of philosophical analysis in the work of a doctor
Bioethics
Knowledge: moral and ethical standards, rules and principles of professional medical conduct, rights of the patient and the doctor, basic ethical documents regulating the activities of the doctor (II - III level)
Skills: build and maintain working relationships with patients and other team members
Skills: observes moral and ethical standards and principles of medical conduct, in accordance with documents regulating the activities of a doctor
Histology, embryology, cytology
Knowledge: embryogenesis, histological structure of tissues and systems
Skills: determine age-related patterns of development of organs and systems analyze the results of histophysiological research
Skills: uses knowledge of histological structure, embryogenesis of tissues and systems in professional activities
Microbiology, virology
Knowledge: the impact of microbes, viruses, rickettsia, fungi on the body. Microbiological diagnostics of infectious diseases
Skills: analyze the results of microbiological diagnostics of infectious diseases
Skills: interprets the results of microbiological diagnostics of infectious diseases
Modern problems of regeneration
Knowledge: biological essence, main forms and phases of the main types of regeneration - physiological and reparative; general ideas about the possibility of stimulating regenerative processes occurring in the body; main types of stem cells, sources of their production, application in medicine
Skills: analyze the patterns of physiological and reparative regeneration and the importance of the immune system

Skills: applies knowledge about the functioning of the immune system and the patterns of physiological and reparative regeneration in professional activities
Medical informatics
Knowledge: mathematical methods for solving intellectual problems and their application in medicine; theoretical foundations of computer science; collection, storage, search, processing, transformation, distribution of information in medical and biological systems; use of information computer systems in medicine and health care; principles of operation and design of equipment used in medicine; fundamentals of physical and mathematical laws that are reflected in medicine
Skills: use educational, scientific, popular science literature, the Internet for professional activities, work with equipment taking into account safety regulations
Skills: uses educational, scientific, popular science literature in the work of a doctor, observes safety rules when working with equipment
Bioorganic chemistry in medicine
Knowledge : chemical and biological essence of processes occurring in a living organism at the molecular and cellular levels
Skills : analyze the contribution of chemical processes to the functioning of the cardiovascular, respiratory, digestive, urinary, and hematopoietic systems.
Skills: applies knowledge of chemical processes occurring in the cardiovascular, respiratory, digestive, urinary, and hematopoietic systems in diagnosing diseases
Biochemistry
Knowledge: blood composition, biochemical blood constants, hormones, buffer systems, hemoglobin oxygenation factors, erythrocyte metabolism
Skills: analyze the contribution of biochemical processes to the functioning of organs and the cardiovascular, respiratory, digestive, urinary, and hematopoietic systems; interpret the results of the most common laboratory diagnostic methods to identify disorders in diseases of internal organs and occupational diseases.
Skills: applies laboratory diagnostic methods to identify changes in the functioning of internal organs during medical practice
Biology
Knowledge: laws of genetics and its importance for medicine; patterns of heredity and variability in individual development as the basis for understanding the pathogenesis and etiology of hereditary and multifactorial diseases; biosphere and ecology, the phenomenon of parasitism and bioecological diseases
Skills: analyze patterns of heredity and variability in the development of diseases of internal organs and occupational diseases
Skills: applies knowledge of genetic patterns in the diagnosis of hereditary diseases
Anatomy
Knowledge: anatomical and physiological features of the respiratory, cardiovascular, digestive, hematopoietic systems (II - III level)
Skills: analyze age-gender characteristics of the structure of organs and systems
Skills: uses knowledge of the anatomical and physiological features of the respiratory, cardiovascular, digestive, and hematopoietic systems in diagnosing internal diseases
Normal Physiology
Knowledge: reflex arc, conditioned and unconditioned reflexes, physiology of the cardiovascular, digestive, urinary, respiratory and hematopoietic systems in the norm (II - III level)

Skills : analyze the importance of regulation of biological processes in the human body on the functioning of the cardiovascular, digestive, urinary, respiratory, and hematopoietic systems.
Skills: applies knowledge of the physiology of the cardiovascular, digestive, urinary, respiratory and hematopoietic systems in the diagnosis of diseases of the internal organs
Topographic anatomy and operative surgery
Knowledge: structure, topography of cells, tissues, organs and systems of the body in interaction with their function in norm and pathology
Skills: analyze the functional features of the cardiovascular, respiratory, digestive, urinary, and hematopoietic systems in normal and pathological conditions.
Skills: applies functional research methods taking into account the characteristics of the cardiovascular, respiratory, digestive, urinary, and hematopoietic systems
Pathophysiology, clinical physiology
Knowledge: morphological changes in body tissues in pathologies of the cardiovascular, respiratory, digestive, urinary and blood systems (Level II)
Skills: determine the contribution of pathophysiological processes to the development of diseases of internal organs
Skills: applies knowledge of morphological knowledge of tissues of organs and systems in the diagnosis of diseases
Pharmacology
Knowledge : mechanism of action and side effects of various drugs on the body
Skills: be able to write prescriptions for prescribed drugs, know the indications and contraindications for their use
Skills: writes prescriptions for medications taking into account indications and contraindications
Propaedeutics of internal diseases
Knowledge: methods of collecting complaints, anamnesis , objective methods of examining patients (palpation, percussion, auscultation
Skills: collect complaints, medical and life history, conduct a physical examination, identify the main syndromes and symptoms of internal organ diseases
Skills: collects complaints, anamnesis of life and illness from patients, uses objective methods of examining patients
Radiation diagnostics
Knowledge: basic methods of radiation diagnostics for diagnosing diseases of the cardiovascular, respiratory, digestive, urinary and blood systems
Skills: describe X-ray symptoms and syndromes of diseases of the lungs, digestive and urinary systems
Skills: uses basic methods of radiation diagnostics to diagnose diseases of the cardiovascular, respiratory, digestive, urinary and blood systems
Pathological anatomy, clinical pathological anatomy
Knowledge: structural foundations of diseases, their etiology, development mechanisms (pathogenesis), diagnostic principles; morphological features of the disease at the subcellular, cellular, tissue, organ, systemic and organismic levels
Skills: compare morphological and clinical manifestations of diseases of internal organs at all stages of their development
Skills: applies knowledge of the etiology and pathogenesis of diseases in the diagnosis and treatment of diseases

Hygiene
<p>Knowledge: the basics of preventive medicine aimed at improving the health of the adult population.</p> <p>Skills: be able to organize the work of a therapeutic hospital taking into account sanitary and hygienic requirements, conduct sanitary and educational work among patients of a therapeutic hospital.</p> <p>Skills: organizes work in a hospital in compliance with sanitary and hygienic requirements, conducts sanitary and educational work</p>
Faculty therapy
<p>Knowledge: main causes, pathogenesis, clinical picture, diagnostics and treatment of diseases of internal organs</p> <p>Skills: conduct differential diagnostics of acute abdominal pathologies with diseases of internal organs.</p> <p>Skills: diagnose and treat diseases taking into account knowledge of the etiology, pathogenesis, diagnosis and treatment of diseases of internal organs</p>
Psychiatry, medical psychology
<p>Knowledge: mental characteristics of medical patients, psychology of patients with medical diseases, psychology of patients with body defects.</p> <p>Skills: conduct a clinical interview, provide a psychological assessment of complaints, evaluate anamnestic data, observe a patient during his stay in a medical institution, prescribe measures for mental hygiene and psychoprophylaxis, provide emergency medical and psychiatric care.</p> <p>Skills: provides assistance to the patient taking into account the mental characteristics of therapeutic patients and psychology.</p>
Educational practice: Introductory practice - practice for obtaining primary professional skills and abilities. General care for patients of therapeutic and surgical profile
<p>Knowledge: basics of sanitary and hygienic regimen, types of sanitary treatment of patients, principles of general and special care of patients, the importance of care in the treatment of patients.</p> <p>Skills: carry out general patient care activities (hygiene of clothing, bedding, care of hair, eyes, ears, nails, use of bedpans, urine collectors, feeding patients, prevention of bedsores).</p> <p>Skills: performs any type of sanitary treatment of patients according to the principles of general and special care</p>
Industrial practice: Practice to obtain primary professional skills and abilities in the position of mid-level medical personnel. Assistant ward nurse.
<p>Knowledge: organization of work of a nurse's post, features of work of mid-level medical personnel in a medical department.</p> <p>Skills: performing therapeutic and diagnostic enemas, gastric lavage, inhalation of medications, collecting material for laboratory diagnostic tests (sputum, feces, urine), preparing patients for X-ray and instrumental diagnostic tests, performing basic resuscitation measures.</p> <p>Skills: organizes the work of the nurse's station, observes the peculiarities of the work of the mid-level medical personnel</p>
Educational practice: Introductory practice - manipulative
<p>Knowledge : job descriptions of nursing staff and the specifics of the work of nurses in the therapeutic, surgical and intensive care departments.</p> <p>Skills: be able to perform nursing procedures (injections, intravenous infusions, gastric probing, bladder catheterization, enemas, feeding patients, inhalation of medications).</p> <p>Skills: Complies with nursing job descriptions, performs nursing procedures</p>
Industrial practice: Practice for obtaining primary professional skills and abilities in the position of mid-level medical personnel. Assistant procedural nurse

Knowledge: principles of operation of a procedural room, duties of a procedural nurse.
Skills: perform subcutaneous, intradermal, intramuscular, intravenous injections and infusions.
Skills: Performs duties of a procedural nurse

1.7. Interdisciplinary connections of practice with subsequent disciplines/practices

The knowledge and skills acquired during the industrial practice "Therapeutic profile practice. Assistant to a hospital physician" are necessary for studying subsequent disciplines and practices:

Item No.	Name of subsequent disciplines	Industrial practice "Therapeutic profile practice. Assistant to a hospital doctor"
1. 1	Hospital therapy	+
2. 2	Phthysiology	+
3. 3	Selected issues of pulmonology and allergology	+
4. 4	General health and healthcare, health economics	
5. 5	Infectious diseases	+
6. 6	Ophthalmology	+
7. 7	Forensic medicine	+
8. 8	Oncology, radiation therapy	+
9. 9	Dermatovenereology	+
10. 11	Endocrinology	+
11. 12	Anesthesiology, resuscitation, intensive care therapy	+
12. 13	Clinical pharmacology	+
13. 14	Hospital surgery, pediatric surgery	+
14. 15	Pediatrics	+
15. 16	Obstetrics and gynecology	+
16. 17	Outpatient therapy	+
17. 21	Traumatology, orthopedics	+
18. 22	Internship to gain professional skills and experience in professional activities - assistant physician of an outpatient clinic	+
19. 23	Practice in emergency medical procedures	+
20. 24	General medical practice	+

1.8. Requirements for the results of the internship

Mastering the practice of "Therapeutic profile practice. Assistant to a hospital physician" is aimed at **developing the following universal (UC), general professional (IIPK), professional competencies (PC):** UC-4; GPK-1,2,4,5,5,7,10, PC-1,2,4,10, 11,12)

No. p/p	Code and name of the competence (or part)	Code and the name of the indicator of achievement of competence
Universal competencies		
1	UC-4. Able to apply modern communication technologies.... for academic and professional interaction	AI UC-4.1. Uses communicative and linguistic tools to build effective partnerships with patients and colleagues; selects a communication style.
General professional competencies		
2	GPK-1. Capable of implementing moral and legal norms, ethical and deontological principles in professional activities	AI GPK-1.1. Carries out professional activities in accordance with ethical standards and moral principles.
3	GPK-2. Capable of conducting and monitoring the effectiveness of measures for prevention, healthy lifestyle development and sanitary and hygienic education of the population.	AI GPK -2.4. Performs ranking of risk factors for public health, selects and justifies optimal measures to minimize and eliminate health risks.
4	GPK-4. Capable of using medical products provided for by the procedure for providing medical care, as well as conducting patient examinations in order to establish a diagnosis	AI GPK -4.1. Uses modern medical technologies, specialized equipment and medical products, disinfectants, drugs, including immunobiological and other substances and their combinations when solving professional problems from the standpoint of evidence-based medicine. AI GPK -4.2. Knows the indications and contraindications for the appointment of instrumental, functional and laboratory examination methods, possible complications during the examination, emergency care and their prevention. AI GPK -4.3. Interprets the results of the most common methods of instrumental, laboratory and functional diagnostics, thermometry to identify pathological processes. AI GPK -4.4. Proficient in methods of general clinical examination of patients of various ages. AI GPK -4.5. Formulates a preliminary diagnosis and clinical diagnosis according to ICD.
5	GPK-5. Capable of assessing morphofunctional, physiological states and pathological processes in the human body to solve professional problems	AI GPK -5.2. Knows the etiology, pathogenesis, morphogenesis, pathomorphosis of disease development, basic concepts of nosology. AI GPK -5.3. Knows the indicators of the morphofunctional, physiological state of a healthy person and can measure/determine them.

		AI GPK -5.4. Uses indicators of morphofunctional, physiological state and pathological process to examine the human body in order to establish a diagnosis, prescribe treatment and monitor its effectiveness and safety.
6	GPk-7. Capable of prescribing treatment and monitoring its effectiveness and safety	AI GPK -7.1. Selects a drug based on the totality of its pharmacokinetic and pharmacodynamic characteristics for the treatment of patients with various nosological forms in outpatient and inpatient settings. AI GPK -7.2. Selects the optimal minimum of the most effective means, using convenient methods of their application. AI GPK -7.4. Prescribes medications for the treatment of diseases and correction of pathological conditions, based on the characteristics of the pharmacokinetics and pharmacodynamics of drugs. AI GPK -7.7. Assesses the effectiveness and safety of drug therapy using a combination of clinical, laboratory, instrumental and other diagnostic methods.
7	GPk-10. Capable of solving standard tasks of professional activity using information, bibliographic resources, medical and biological terminology, information and communication technologies, taking into account the basic requirements of information security	AI GPK -10.1. Maintains confidentiality when working with information databases and with individual data of citizens. AI GPK -10.2. Carries out effective search for information necessary for solving problems of professional activity, using legal reference systems and professional pharmaceutical databases.

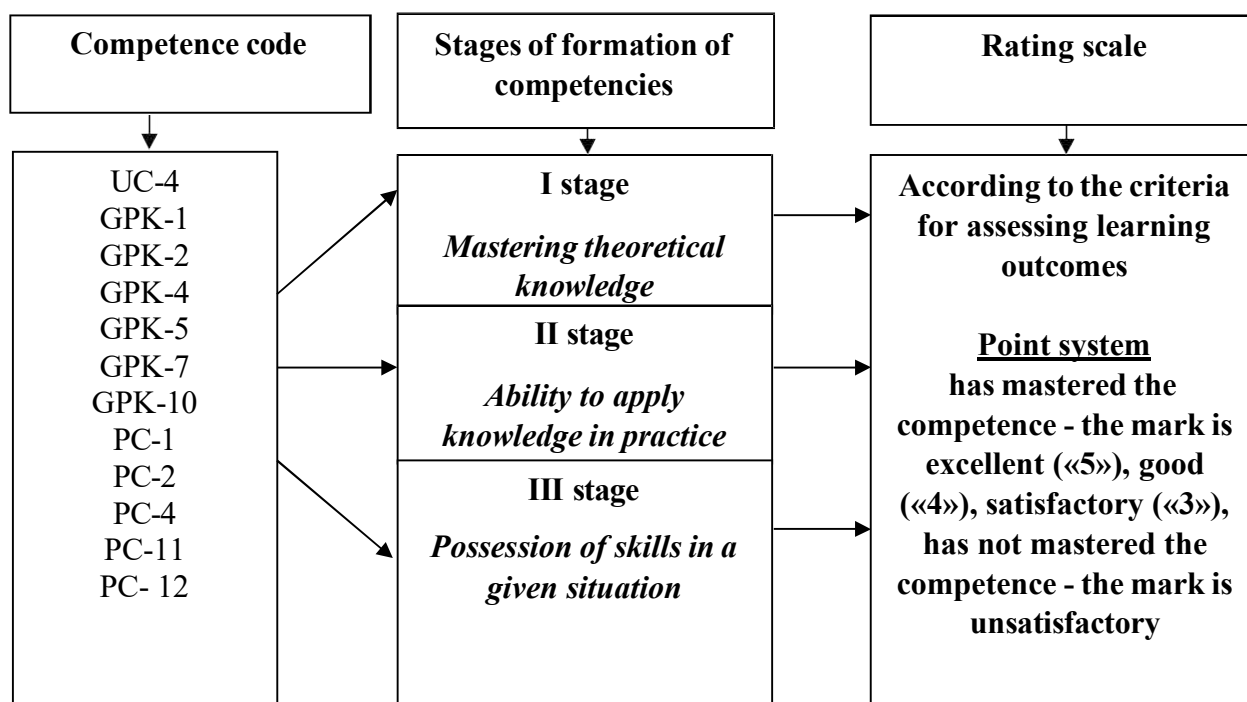
Professional competencies

No. p/p	Labor functions	Code and name of professional competence	Code and name of the indicator of achievement of competence
8	A/01.7 Diagnostics of diseases and (or) conditions in the profile of "therapy"	PC-1. Ability to collect and analyze complaints, life history, disease history patient for the purpose of establishing a diagnosis and (or) condition according to the profile "therapy"	AI PC-1.1 . Collect complaints, medical history, and life history from a patient with a disease and/or condition in the “therapy” profile (or his/her legal representative) AI PC- 1.2. Interpret and analyze information received from a patient with a disease and/or condition in the “therapy” profile (or his/her legal representative)
9		PC-2. Ability to conduct a physical examination of a patient, analyze the results of additional examination methods in order to establish a diagnosis and (or) condition in the “therapy” profile	AI PC-2.1. Conduct a physical examination of the patient (inspection, palpation, percussion, auscultation) and interpret its results AI PC-2.2. Justify the need and scope of laboratory and instrumental examinations of a patient with a disease and (or) condition in the profile of "therapy" AI PC-2.3. Conduct diagnostic manipulations and interpret the results obtained: - measurement of blood pressure in peripheral arteries;

			<ul style="list-style-type: none"> - blood glucose level test - ambulatory blood pressure monitoring (ABPM) - pulse oximetry - reading spirograms - determination of the ankle-brachial index - conducting an orthostatic test - pneumotachometry - taking and decoding an electrocardiogram <p>AI PC-2.4. Interpret the results of laboratory and instrumental examinations of patients</p> <p>AI PC-2.7. Assess the severity of the disease and (or) the condition of the patient with the disease according to the profile "therapy"</p> <p>AI PC-2.8. Establish a diagnosis taking into account the ICD of a patient with a disease and (or) condition according to the profile "therapy"</p> <p>AI PC-2.9. Conduct differential diagnostics of diseases and (or) conditions in the "therapy" profile, using diagnostic algorithms (primary, concomitant and complications) taking into account the ICD</p>
10	A/02.7 Prescribing treatment to patients with diseases and/or conditions in the "therapy" profile and monitoring its effectiveness and safety	PC-4. Ability to prescribe treatment to patients with diseases and (or) conditions in the profile of "therapy"	<p>AI PC- 4.1. To draw up and justify a treatment plan for a patient with a disease and (or) condition in the "therapy" profile, taking into account the diagnosis, age of the patient, clinical picture of the disease and (or) condition in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care</p> <p>AI PC- 4.2. Prescribe medicinal products, medical devices taking into account the clinical picture of the disease and (or) the condition in the profile "therapy" and the risk factors for its development in accordance with the procedures for the provision of medical care, clinical recommendations, taking into account the standards of medical care</p> <p>AI PC- 4.3. Prescribe non-drug treatment and therapeutic nutrition to a patient with a disease and (or) condition in the "therapy" profile, taking into account the diagnosis, age and clinical picture in accordance with the procedures for providing medical care, clinical recommendations, taking into account the standards of medical care.</p>
11	A/07.7. Conducting analysis of medical and statistical information,	PC-10. Readiness to conduct an analysis of medical and statistical indicators of morbidity, disability	<p>AI PC-10. 1. Make a work plan and a report on your work.</p> <p>AI PC-10.4. Comply with internal work regulations, fire safety requirements, labor protection and safety engineering.</p>

	maintaining medical records, organizing the activities of medical personnel at their disposal	of patients with diseases and (or) conditions in the “therapy” profile to assess the health of the assigned population.	
12		PC-11. Ability to maintain medical records and control the quality of their maintenance	AI PC-11.1. Fill out medical documentation, including in the form of an electronic document, monitor the quality of its maintenance AI PC-11.2. Use in work personal data of patients and information constituting a medical secret AI PC-11.3. Use medical information systems and the Internet information and telecommunications network in professional activities.
13	A/08.7. Provision of emergency and urgent medical care to patients	PC-12. Ability to provide medical care in emergency and urgent situations	AI PC-12.1. Recognize conditions that require emergency medical care, including clinical signs of sudden cessation of blood circulation and/or breathing, requiring emergency and urgent medical care. AI PC-12.3. Use medicinal products and medical devices when providing medical care to patients in emergency and urgent cases

1.9. Stages of competence development and descriptions of assessment scales



2. STRUCTURE AND CONTENT OF PRACTICE

2.1. Volume practices

Types of educational work	
Total labor intensity in hours, total	72
Total workload in credit units, total	2
Type of intermediate assessment	Credit with grade

2.2. Type practices

Type: industrial practice

"Therapeutic profile practice. Assistant to a hospital physician" refers to industrial practice and is a mandatory section of the educational process, directly focused on the professional and practical training of students .

The most optimal form of industrial practice is work in hospital departments. When implementing the program, attention is paid to the students' development of the proposed list of mandatory practical skills.

Innovative teaching methods include the Accreditation and Simulation Center (ASC) with dummies and phantoms, and computer presentations on the diagnosis of internal diseases.

After mastering practical skills, students perform manipulations directly in the hospital departments under the supervision of a doctor and teacher, who are responsible for students' compliance with the basic rules for performing various manipulations, as well as the principles of medical ethics and deontology, during industrial practice.

2.3. Criteria ratings knowledge students

The assessment of learning outcomes is carried out in accordance with the “Regulations on the assessment system for the learning outcomes of students of the Federal State Budgetary Educational Institution of Higher Education Amur State Medical Academy of the Ministry of Health of Russia”.

The basis for determining the level of knowledge, skills, and abilities are the assessment criteria - completeness and correctness:

- correct, precise answer;
- correct but incomplete or imprecise answer;
- incorrect answer;
- no answer.

When assigning marks, the classification of errors and their quality are taken into account:

- gross errors;
- similar errors;
- minor errors;
- shortcomings.

Evaluation criteria for individual types of work

Criteria for assessing the theoretical part

- **Excellent** - for the depth and completeness of mastery of the content of the educational material, in which the student easily navigates, for the ability to connect theoretical questions with practical ones, to express and justify their judgments, to correctly and logically present the answer; when testing, allows up to 10% of erroneous answers.
- **Good** - the student has fully mastered the educational material, is oriented in it, and correctly states the answer, but the content and form have some inaccuracies; during testing, allows up to 20% of incorrect answers.
- **Satisfactory** - the student has mastered the knowledge and understanding of the main provisions of the educational material, but presents it incompletely, inconsistently, does not know how to express and justify his/her judgments; during testing, allows up to 30% of erroneous answers.
- **Unsatisfactory** - the student has fragmented and unsystematic knowledge of the educational material, is unable to distinguish between the main and the secondary, makes mistakes in defining concepts, distorts their meaning, presents the material in a disorderly and uncertain manner, and makes more than 30% of erroneous answers when tested.

Test control assessment

- **Excellent** - 90-100% match with answer standards.
- **Good** - 80-89% match with answer standards.
- **Satisfactory** - 70-79% match with answer standards.
- **Unsatisfactory** - less than 70% match with answer standards.

Assessment criteria for the practical part

- **Excellent** - the student supervises a subject patient on a daily basis, has fully mastered the practical skills provided by the program (correctly interprets the patient's complaints, anamnesis, objective examination data, formulates a clinical diagnosis, prescribes examination and treatment, interprets clinical, laboratory and instrumental indicators taking into account the norm).
- **Good** - the student supervises the subject patient on a daily basis, has fully mastered the practical skills provided by the program, but allows for some inaccuracies.
- **Satisfactory** - the student does not regularly supervise the patient, the student has only some practical skills.
- **Unsatisfactory** - the student visited the supervised patient less than 4 times, performs practical skills with gross errors.

Intermediate control (credit lesson) on a five-point scale

The midterm assessment is carried out by a practice commission consisting of a course supervisor from the Altai State Medical Academy and a practice supervisor from a specialized organization.

- **Excellent** - for the depth and completeness of mastering the content of the educational material, in which the student easily navigates, for the ability to combine theoretical issues with practical ones, solve clinical problems, express and justify their judgments, make a detailed clinical diagnosis and justify it, prescribe and justify an examination, treatment, competently and logically present the answer, for the design of an interesting case according to requirements, mastering practical skills in full.
- **Good** - the student has fully mastered the educational material, is oriented in it, correctly states the answer, but the content and form have inaccuracies. In the design of an interesting case, there are inaccuracies in the formulation of a detailed clinical diagnosis, examination, treatment. Practical skills have been mastered by 50%.
- **Satisfactory** - the student has mastered the knowledge and understanding of the main provisions of the educational material, but an interesting case is presented with errors, inaccuracies were made in the formulation of a detailed clinical diagnosis, treatment, the pathogenesis of the disease is not fully covered. Practical skills have been mastered by 30%.
- **Unsatisfactory** - the student has fragmentary and unsystematic knowledge of the educational material, cannot distinguish between the main and the secondary, makes mistakes in defining concepts, distorts their meaning, presents the material in a disorderly and uncertain manner, cannot apply his knowledge to solving clinical situational problems, interpreting instrumental and laboratory data, cannot make a detailed clinical diagnosis, justify it, cannot prescribe examination and treatment, an interesting case is written with gross errors (a detailed clinical diagnosis is not made and is unjustified, treatment is prescribed incorrectly, the pathogenesis of the disease is not covered). Less than 30% have mastered practical skills.

3. Educational, methodological, logistical and informational support for practice

3.1. Main literature

1. Internal diseases: in 2 volumes. Vol. I: textbook: in 2 volumes / edited by A. I. Martynov, Zh. D. Kobalava, S. V. Moiseev. - 4th ed. reworked - Moscow: GEOTAR-Media, 2023. - 784 p. - ISBN 978-5-9704-7231-6. - Text: electronic // EBS "Student Consultant": [website]. - URL: <https://www.studentlibrary.ru/book/ISBN9785970472316.html> (date of access: 10/31/2024). - Access mode: by subscription.
2. Internal diseases: in 2 volumes. Vol. II: textbook / edited by A. I. Martynov, Zh. D. Kobalava, S. V. Moiseev. - 4th ed. reworked - Moscow: GEOTAR-Media, 2023. - 704 p. - ISBN 978-5-9704-7232-3. - Text: electronic // EBS "Student Consultant": [website]. - URL: <https://www.studentlibrary.ru/book/ISBN9785970472323.html> (date of access: 10/30/2024). - Access mode: by subscription.
3. Makolkin, V. I. Internal Medicine: textbook / Makolkin V. I., Ovcharenko S. I., Sulimov V. A. - 6th ed., revised. and additional. Moscow: GEOTAR-Media, 2017. - 768 p. - ISBN 978-5-9704-4157-2. - Text: electronic // EBS "Student Consultant": [site]. - URL: <https://www.studentlibrary.ru/book/ISBN9785970441572.html> (date of access: 11/14/2024). - Access mode: by subscription.

3.2. Additional reading

1. Pavlenko, V. I. Acid-dependent and associated with Helicobacter pylori diseases in the practice of a district general practitioner : a tutorial / V. I. Pavlenko, O. M. Goncharova, I. P. Soluyanov. - Blagoveshchensk: Amur State Medical Academy of the Ministry of Health of Russia, 2021. - 171 p. - Text: electronic // Lan: electronic library system. - URL: <https://e.lanbook.com/book/192848> (date accessed: 12/14/2022). - Access mode: for authorized users.
2. Ganceva, H.H. Clinical examination of the patient / Ganceva H.H., Ishmuratova R. Sh., Kzyrgalin Sh. R., Gainullin A. Kh. - Moscow: GEOTAR-Media, 2021. - 208 p. (Oncology

Series) - ISBN 978-5-9704-6035-1. - Text: electronic // EBS "Student Consultant": [website]. - URL: <https://www.studentlibrary.ru/book/ISBN9785970460351.html> (date of access: 11/14/2024). - Access mode: by subscription.

- Internal diseases (selected sections): a teaching aid / compiled by S. L. Zharsky [et al.]; edited by S. L. Zharsky . - Khabarovsk: DVGUMU, 2020. - 260 p. - Text: electronic // Lan: electronic library system. - URL: <https://e.lanbook.com/book/166382> (date accessed: 12/14/2022). - Access mode: for authorized users.

3.3. Educational and methodological support for practice, prepared by the department staff.

- Educational aids (UMO)

1	Pavlenko V.I., Kulik E.G. Clinical pulmonology. Part 1 / Study guide. - Blagoveshchensk. - 2025. - 170 p. (UMO stamp)
2	Sulima M.V., Kulik E.G. Clinical gastroenterology. Part 1. – Blagoveschensk. -2025. -160 p. (UMO stamp)
3.	Pavlenko V.I., Kulik E.G. Latin terms and catchphrases in clinical practice. Study guide. Blagoveshchensk. - 2015. - 32 p. Access mode: https://www.amursma.ru/zakrytaya-chast-sayta/4-kurs/

- Electronic and digital technologies:

1. Multimedia presentations for lectures posted in the Electronic Information and Educational System of the Federal State Budgetary Educational Institution of Higher Education Amur State Medical Academy.

Access mode: <https://educ-amursma.ru/course/view.php?id=362>

2. Videos:

- Arterial hypertension.
- Patients with coronary artery disease.

3. Photographic materials

- Photo album "X-ray diagnostics in internal diseases".
- Photo album "Ultrasound diagnostics of internal organ diseases".
- Photo album "ECG in ischemic heart disease".

4. Electronic teaching aids:

(posted on the website of the Federal State Budgetary Educational Institution of Higher Education Amur State Medical Academy. Access mode: <https://www.amursma.ru/zakrytaya-chast-sayta/4-kurs/>

3.4. Material and technical base for conducting internship

List of equipment used in teaching students.

Item No.	Name	Quantity
Practical skills room		
1	Practical skills room. Classroom 11 (according to explication No. 5) area - 10.2 sq. m. 675000, Amur region, Blagoveshchensk, Bolnichnaya st., 32, letter A1-3, 3rd floor.	1
	FUKUDA -sphygmomanometer and sphygmograph VaSeraVS -1000	1
	Dummy hearts	1
	Pulse oximeter	1
	Peak flow meter	1
	Personal spirometer	1

	Pedometer	1
	Peak flow meter	1
	Individual spirometer	1
	Pedometer	1
	Laptop	1
2	Medical premises, medical equipment (equipment) of a medical organization in accordance with the “Agreement on the organization of practical training of students during industrial practice”	
3	ASC equipment: <ol style="list-style-type: none"> 1. Mannequin imitating adult human 2. Phonendoscope 3. Tonometer 4. Flashlight 5. Syringes with a set medicines 6. Solutions for infusion 7. Torso for auscultation with smartscope 8. System interactive polls Quizdom. 	

3.5. Professional databases, information and reference systems, electronic educational resources.

Name resource	Resource Description	Access	Resource address
ELECTRONIC LIBRARY SYSTEMS			
"Student consultant. Electronic library of the medical university"	For students and teachers of medical and pharmaceutical universities. Provides access to electronic versions of textbooks, teaching aids and periodicals.	Remote access after registration under the university profile	https://www.studentlibrary.ru/
Reference and information system " MedBaseGeotar ".	The reference and information system " MedBaseGeotar " is intended for practicing medical specialists, researchers, teachers, postgraduate students, residents, senior students, and healthcare managers for the rapid search, selection, and reading of medical literature necessary for work in a single data source.	Remote access after registration under the university profile	h https://mbasegeotar.ru/pages/index.html
EBS « Bookup »	Large medical library - information and educational platform for the joint use of electronic educational, educational and methodological publications of medical universities of Russia and the CIS countries	Remote access after registration under the university profile	https://www.books-up.ru/
EBS "Lan"	Network electronic library of medical universities - an electronic database of educational and scientific works on medical topics, created for the purpose of implementing network forms of professional educational programs, open access to educational materials for partner universities	Remote access after registration under the university profile	https://e.lanbook.com/
Scientific electronic library " CyberLeninka "	CyberLeninka is a scientific electronic library built on the paradigm of open science (Open Science), the main objectives of which are the popularization of science and scientific activity, public control over the quality of scientific publications, the development of interdisciplinary research, a modern institute of scientific review, increasing the citation of Russian science and building a knowledge infrastructure. Contains more than 2.3 million scientific articles.	free access	https://cyberleninka.ru/
Oxford Medicine Online	A collection of Oxford medical publications, bringing together over 350 titles into a single, cross- searchable resource. Publications include The Oxford Handbook of	free access	http://www.oxfordmedicine.com

	Clinical Medicine and The Oxford Textbook of Medicine , electronic versions of which are constantly updated.		
Human Biology Knowledge Base	Reference information on physiology , cell biology , genetics , biochemistry , immunology , pathology . (Resource of the Institute of Molecular Genetics of the Russian Academy of Sciences .)	free access	http://humbio.ru/
Medical online library	Free reference books, encyclopedias, books, monographs, abstracts, English-language literature, tests.	free access	https://www.medlib.ru/library/library/books
INFORMATION SYSTEMS			
Clinical Guidelines Rubricator	A resource of the Russian Ministry of Health that contains clinical recommendations developed and approved by medical professional non-profit organizations of the Russian Federation, as well as methodological guidelines, nomenclatures and other reference materials.	Link to download the application	https://cr.minzdrav.gov.ru/#!/
Federal Electronic Medical Library (FEMB)	The Federal Electronic Medical Library is part of the unified state information system in the field of healthcare as a reference system . FEMB was created on the basis of the funds of the Central Scientific Medical Library named after I.M. Sechenov.	free access	https://femb.ru/
Russian Medical Association	Professional Internet resource . Objective: to promote the implementation of effective professional activities of medical personnel. Contains the charter, personnel, structure, rules of entry, information about the Russian medical union.	free access	http://www.rmass.ru/
Web -medicine	The site presents a catalog of professional medical resources, including links to the most authoritative subject sites, journals, societies, as well as useful documents and programs. The site is intended for doctors, students, employees of medical universities and scientific institutions.	free access	http://webmed.irkutsk.ru/
DATABASES			
World Health Organization	The site contains news, statistics on countries that are members of the World Health Organization, fact sheets, reports, WHO publications and much more.	free access	http://www.who.int/ru/

Ministry of Science and Higher Education of the Russian Federation	The website of the Ministry of Science and Higher Education of the Russian Federation contains news, newsletters, reports, publications and much more.	free access	http://www.minobrnauki.gov.ru
Ministry of Education of the Russian Federation	The website of the Ministry of Education of the Russian Federation contains news, newsletters, reports, publications and much more .	free access	https://edu.gov.ru/
Federal portal "Russian education"	A single window for access to educational resources. This portal provides access to textbooks on all areas of medicine and health care.	free access	http://www.edu.ru/
Polpred.com	Electronic library system Business media. Media review	free access	https://polpred.com/news
BIBLIOGRAPHICAL DATABASES			
Database "Russian Medicine"	It is created in the Central Scientific and Methodological Library , and covers the entire collection, starting in 1988. The database contains bibliographic descriptions of articles from domestic journals and collections, dissertations and their abstracts, as well as domestic and foreign books, collections of institute proceedings, conference materials, etc. Thematically, the database covers all areas of medicine and related areas of biology, biophysics, biochemistry, psychology, etc.	free access	https://rucml.ru/
PubMed	A text database of medical and biological publications in English. The PubMed database is an electronic search engine with free access to 30 million publications from 4,800 indexed journals on medical topics. The database contains articles published from 1960 to the present day, including information from MEDLINE , PreMEDLINE , NLM . Each year, the portal is replenished with more than 500 thousand new works.	free access	https://pubmed.ncbi.nlm.nih.gov/
eLIBRARY.RU	eLIBRARY.RU platform provides electronic versions of more than 2,000 Russian scientific and technical journals, including more than 1,000 open access journals.	Full functionality of the site is available after registration	http://elibrary.ru/defaultx.asp
Electronic library of dissertations (RGB)	Currently, the Electronic Library of Dissertations of the Russian State Library contains more than 919,000 full texts of dissertations and abstracts.	free access	http://diss.rsl.ru/?menu=disscatalog/

Medline.ru	Medical and biological portal for specialists. Biomedical journal.	free access	https://journal.scbmt.ru/jour/index
Official Internet portal of legal information	The single official state information and legal resource in Russia	free access	http://pravo.gov.ru/

3.6. Licensed and freely distributed software used in the educational process.

List of software (commercial software products).

No. p/p	List of software (commercial software products)	Details of confirming documents documents
1.	MS Operating System Windows 7 Pro	License number 48381779
2.	MS Operating System Windows 10 Pro	CONTRACT No. UT-368 from 09.21.2021
3.	MS Office	License number: 43234783, 67810502, 67580703, 64399692, 62795141, 61350919
4.	Kaspersky Endpoint Security for business – Standard Russian Edition . 50-99 Node 1 year Educational Renewal License	Agreement No. 7 AA dated 02/07/2025
5.	1C Accounting and 1C Salary	LICENSE AGREEMENT 612/L dated 02.02.2022 (additional licenses)
6.	1C: PROF University	LICENSE AGREEMENT No. KrTsB-004537 dated 12/19/2023
7.	1C: PROF Library	LICENSE AGREEMENT No. 2281 dated 11.11.2020
8.	Consultant Plus	Contract No. 41AA dated 12/27/2024
9.	Contour.Tolk	Agreement No. K213753/24 dated 13.08.2024
10.	E-learning environment 3KL (Russian Moodle)	Agreement No. 1362.5 dated November 20, 2024
11.	Astra Linux Common Edition	Agreement No. 142 A dated September 21, 2021
12.	Information system "Plans"	Agreement No. 2873-24 dated June 28, 2024
13.	1C: Document Management	Agreement No. 2191 dated 10/15/2020
14.	R7-Office	Agreement No. 2 KS dated 12/18/2020
15.	License "OS ROSA CHROME workstation"	Agreement No. 88A dated 08/22/2024
16.	Alt Virtualization Server 10 (for secondary specialized and higher professional education)	Agreement No. 14AK dated 09/27/2024
17.	Dr.Web Desktop Security Suite Comprehensive protection + Control Center for 12 months.	Agreement No. 8 dated October 21, 2024
18.	Software "Schedule for educational institutions"	Agreement No. 82A dated July 30, 2024

List of freely distributed software

No. p/p	The list is free Distributed software	Links to license agreement
1.	Yandex Browser	Freely distributed License Agreement for the Use of Yandex Browser Programs https://yandex.ru/legal/browser_agreement/
2.	Yandex.Telemost	Freely distributed License agreement for the use of programs https://yandex.ru/legal/telemost_mobile_agreement/
3.	Dr.Web CureIt !	Freely distributed License Agreement:

		https://st.drweb.com/static/new-www/files/license_CureIt_ru.pdf
4.	OpenOffice	Freely distributed License: http://www.gnu.org/copyleft/lesser.html
5.	LibreOffice	Freely distributed License: https://ru.libreoffice.org/about-us/license/
6.	VK Calls	Freely distributed https://vk.com/license
7.	Kaspersky Free Antivirus	Freely distributed https://products.s.kaspersky-labs.com/homeuser/Kaspersky4Win2021/21.16.6.467/english-0.207.0/3830343439337c44454c7c4e554c4c/kis_eula_en-in.txt

3.7. Resources of the information and telecommunications network "Internet"

-Library of Amur State Medical Academy. Access mode:

<https://amurgma.ru/obuchenie/biblioteki/biblioteka-amurskoy-gma/>

-Electronic library system "Student consultant". Access mode:

<https://www.studentlibrary.ru>

4. ASSESSMENT TOOLS FUND

4.1. Examples of test tasks for intermediate knowledge control

Conducted in the Moodle system

Number of test tasks – 400

Please indicate one correct answer.

Examples of test assignments for the exam

1. IN LABORATORY DIAGNOSTICS OF LIVER CIRRHOSIS, THE DECISIVE POINT IS

- 1) fibroelastometry
- 2) bilirubin level
- 3) AST, ALT, LDH
- 4) albumin level

2. THE PRESENCE OF CHOLESTASIS SYNDROME IS INDICATED BY

- 1) increased levels of alkaline phosphatase, bilirubin, cholesterol
- 2) increased activity of AST, ALT, LDH
- 3) decreased prothrombin levels
- 4) Changes in protein sediment samples

3. THE MAIN CLINICAL SIGN OF CHOLESTASIS IS

- 1) skin itching.
- 2) liver palms
- 3) ascites
- 4) hepatomegaly

Answer standards: 1-1, 2-1, 3-1

4.2. List of practical skills that a student should have after completing the internship

1. Attend morning conferences
2. Examine the sick
3. Prepare medical records
4. Prepare discharge summaries
5. Take an ECG
6. Take a spirogram
7. Determine blood type (with a doctor)
8. Perform blood transfusions (with a doctor)
9. Perform punctures (together with a doctor):
 - pleural
 - sternal
 - abdominal
10. Measure blood pressure
11. Carry out gastric lavage
12. Conduct an assessment:
 - blood tests, urine tests
 - ECG
 - spirogram
 - sputum analysis
 - biochemical blood test (glucose, bilirubin, lipid spectrum, transaminases, acute phase proteins, troponins, serum iron, procalcitonin, calprotectin, INR)
 - R-gram, computed tomography
 - analysis for dysbacteriosis
 - coprogram
 - immunogram
13. Other skills (presence):
 - echocardiography
 - fibrogastroduodenoscopy
 - Ultrasound of internal organs
 - bronchoscopy
 - spirometry
 - peak flowmetry
14. Be present at the autopsy
15. Relieve emergency conditions:
 - exacerbation of bronchial asthma
 - pulmonary edema
 - pain attack in MI and angina
 - cardiogenic shock
 - cardiac asthma
 - anaphylactic shock
 - hepatic coma
 - portal hypertension
 - rhythm disturbances (paroxysmal tachycardia: supraventricular, ventricular forms), atrial fibrillation, extrasystole).

4.3. List of questions for the test

I. Emergency care for:

1. Pulmonary edema
2. Hypertensive crisis
3. Attack of angina
4. Exacerbation of bronchial asthma
5. Acute period of MI
6. Cardiogenic shock
7. Anaphylactic shock
8. Heart rhythm disturbance (paroxysmal tachycardia, atrial fibrillation)
9. Cardiac asthma
10. Hepatic coma
11. Portal hypertension

II. Classifications:


1. IHD
2. Angina pectoris
3. THEM
4. Functional classes of angina pectoris
5. Acute rheumatic fever
6. Hypertension
7. Heart failure
8. Pneumonia
9. Bronchial asthma
10. COPD
11. Suppurative lung diseases
12. Chronic gastritis
13. Peptic ulcer disease
14. Chronic pancreatitis
15. Chronic cholecystitis
16. IBS, dysbacteriosis
17. Hepatitis and cirrhosis
18. Iron deficiency anemia
19. Chronic pyelonephritis.
20. Chronic, acute glomerulonephritis.

III. Evaluation of paraclinical research methods:

1. ECG recording technique
2. Pleural puncture technique.
3. ECG - signs of myocardial infarction
4. ECG - signs: blocks, extrasystoles, paroxysmal tachycardia, atrial fibrillation, atrial flutter
5. Evaluation of spirogram
6. Evaluation of clinical blood and urine tests
7. Evaluation of biochemical parameters
8. Sputum analysis evaluation
9. Blood transfusion:
 - determination of the blood group of the patient and the donor;
 - Conducting a compatibility test using the ABO system;
 - conducting a Rh compatibility test;
 - conducting a biological test
10. Description of R-grams

IV. Treatment principles:

1. Chronic gastritis
2. Peptic ulcer disease
3. Cholecystitis
4. Pancreatitis
5. Hepatitis, cirrhosis
6. IBS, dysbacteriosis
7. IHD (angina pectoris, myocardial infarction)
8. Disturbance of rhythm and conduction
9. Chronic rheumatic heart disease, acute rheumatic fever
10. Hypertension
11. Acute and chronic heart failure
12. Chronic pyelonephritis
13. Acute and chronic glomerulonephritis
14. COPD
15. Bronchial asthma
16. Pneumonia
17. Suppurative lung diseases
18. Iron deficiency anemia

APPROVED
 at a meeting of the Department of Faculty and
 Outpatient Therapy
 Protocol No. 6 of May 14, 2026
 Head of Department  Pavlenko V.I.

**ADDITIONS AND CHANGES TO THE PRACTICAL WORK PROGRAM
 "THERAPEUTIC PROFILE PRACTICE. HOSPITAL PHYSICIAN'S ASSISTANT"
 SPECIALTY 31.05.01 MEDICAL CARE
 FOR THE 2026-2027 ACADEMIC YEAR**

1. Make additions and changes to section 3.3. Educational and methodological materials prepared by department staff:

Textbooks (UMO):

- V. I. Pavlenko, E. G. Kulik, S. V. Naryshkina. Clinical pulmonology. Part 1 – Blagoveshchensk: Amur State Medical Academy, 2025. – 179 p.

Electronic and digital technologies:

Videos:

1. Classification of COPD.

2. The tables in section 3.5. “Licensed and freely distributed software used in the educational process”, “ Professional databases, information and reference systems, electronic educational resources ” shall be set out as follows:

List of software (commercial software products)

No. p/p	List of software (commercial software products)	Details of supporting documents
1.	MS operating system Windows 7 Pro	License number 48381779
2.	MS operating system Windows 10 Pro	CONTRACT No. UT-368 from September 21, 2021
3 .	MS Office	License numbers: 43234783, 67810502, 67580703, 64399692, 62795141, 61350919
4.	Kaspersky Endpoint Security for Business - Standard Russian Edition . 50-99 Node 1-year Educational Renewal License	Agreement No. 7 AA dated 02/07/2025
5.	1C Accounting and 1C Salary	LICENSE AGREEMENT 612/L dated 02.02.2022 (additional licenses)
6.	1C: PROF University	LICENSE AGREEMENT No. KrTsB-004537 dated December 19, 2023
7.	1C: PROF Library	LICENSE AGREEMENT No. 2281 dated November 11, 2020
8.	Consultant Plus	Contract No. 41AA dated December 27, 2024
9.	Kontur.Tolk	Agreement No. K213753/24 dated August 13, 2024
10.	3KL e-learning environment (Russian Moodle)	Agreement No. 1362.5 dated November 20, 2024
11.	Astra Linux Common Edition	Agreement No. 142 A dated September 21, 2021
12.	Information system "Plans"	Agreement No. 2873-24 dated June 28, 2024
13.	1C: Document Management	Agreement No. 2191 dated 10/15/2020
14.	R7-Office	Agreement No. 2 KS dated 12/18/2020

15.	License for the "ROSA CHROME OS Workstation"	Agreement No. 88A dated 08/22/2024
16.	Alt Virtualization Server 10 (for secondary and higher vocational education)	Agreement No. 14AK dated September 27, 2024
17.	Dr. Web Desktop Security Suite Comprehensive Protection + Control Center for 12 months.	Agreement No. 8 dated October 21, 2024
18.	Software "Schedule for educational institutions"	Agreement No. 82A dated July 30, 2024

List of freely distributed software

No p/p	List of freely distributed software	Links to the license agreement
1.	Yandex Browser	Freely distributed License Agreement for the Use of Yandex Browser Software https://yandex.ru/legal/browser_agreement/
2.	Yandex.Telemost	Freely distributed License Agreement for the Use of Software https://yandex.ru/legal/telemost_mobile_agreement/
3.	Dr. Web CureIt !	Freely distributed License Agreement: https://st.drweb.com/static/new-www/files/license_CureIt_ru.pdf
4.	OpenOffice	Freely distributed License: http://www.gnu.org/copyleft/lesser.html
5.	LibreOffice	Freely distributed License: https://ru.libreoffice.org/about-us/license/
6.	VK Calls	Freely distributed https://vk.com/licence
7.	Kaspersky Free Antivirus	Freely distributed https://products.s.kaspersky-labs.com/homeuser/Kaspersky4Win2021/21.16.6.467/english-0.207.0/3830343439337c44454c7c4e554c4c/kis_eula_en-in.txt

Professional databases, information and reference systems, electronic educational resources

Resource name	Resource Description	Access	Resource address
Electronic library systems			
Student Consultant. Medical University Electronic Library	For students and faculty of medical and pharmaceutical universities. Provides access to electronic versions of textbooks, teaching aids, and periodicals.	Remote access after registration under the university profile	https://www.studentlibrary.ru/
Reference and information system "MedBaseGeota"	The MedBaseGeotar reference and information system is designed for practicing medical specialists, researchers, teachers, postgraduate students, residents, senior students, and	Remote access after registration under	https://mbasegeotar.ru/pages/index.html

er".	healthcare managers to quickly search, select, and read the medical literature they need for their work in a single data source.	the university profile	
Electronic Library System "Bookup"	A large medical library is an information and educational platform for the shared use of electronic educational and methodological publications from medical universities in Russia and the CIS countries.	Remote access after registration under the university profile	https://www.books-up.ru/
Electronic Block System "Lan"	The Network Electronic Library of Medical Universities is an electronic database of educational and scientific works on medical topics, created for the purpose of implementing network forms of professional educational programs, open access to educational materials for partner universities.	Remote access after registration under the university profile	https://e.lanbook.com/
Scientific electronic library "CyberLeninka"	CyberLeninka is a scientific electronic library built on the Open Science paradigm. Its primary goals are the popularization of science and scientific activity, public oversight of the quality of scientific publications, the development of interdisciplinary research, a modern institution of scientific review, increasing the citation rate of Russian science, and building a knowledge infrastructure. It contains over 2.3 million scientific articles.	free access	https://cyberleninka.ru/
Human Biology Knowledge Base	Reference information on <u>physiology</u> , <u>cell biology</u> , <u>genetics</u> , <u>biochemistry</u> , <u>immunology</u> , <u>pathology</u> . (Resource <u>of the Institute of Molecular Genetics of the Russian Academy of Sciences</u> .)	free access	http://humbio.ru/
State Register of Medicines	The State Register of Medicines website contains information about medications: indications, contraindications, mechanism of action, side effects, dosages, and methods of administration.	free access	https://grls.rosminzdrav.ru/GRLS.aspx
Information systems			
Clinical Guidelines Index	A resource of the Russian Ministry of Health that contains clinical guidelines developed and approved by medical	Link to download the	https://cr.minzdrav.gov.ru/#/

	professional non-profit organizations of the Russian Federation, as well as methodological manuals, nomenclatures, and other reference materials.	application	
Federal Electronic Medical Library (FEMB)	The Federal Electronic Medical Library is part of the unified state information system in the field of healthcare as a reference system . The FEMB was created on the basis of the funds of the Central Scientific Medical Library named after I.M. Sechenov.	free access	https://femb.ru/
Russian State Library (RSL)	Collection size: approximately 3 million titles Period covered: from the 11th century to the present The Russian State Library's Electronic Library is a collection of electronic copies of valuable and frequently requested publications from the Russian State Library's collections, from external sources, as well as documents originally created in electronic form.	Registration on the website	https://www.rsl.ru/
Russian Medical Association	A professional online resource. Purpose: to promote effective professional activity among medical personnel. Contains the charter, personnel, structure, membership rules, and information about the Russian Medical Union.	free access	http://www.rmass.ru/
Web medicine	The website provides a directory of professional medical resources, including links to the most authoritative specialized websites, journals, societies, as well as useful documents and programs. It is intended for physicians, students, and staff of medical universities and research institutions.	free access	http://webmed.irkutsk.ru/
Databases			
World Health Organization	The site contains news, statistics on countries that are members of the World Health Organization, fact sheets, reports, WHO publications, and much more.	free access	http://www.who.int/ru/
Ministry of Science and Higher Education	The website of the Ministry of Science and Higher Education of the Russian Federation contains news, newsletters,	free access	http://www.minobrnauki.gov.ru

Education of the Russian Federation	reports, publications, and much more.		
Ministry of Education of the Russian Federation	The website of the Ministry of Education of the Russian Federation contains news, newsletters, reports, publications, and much more.	free access	https://edu.gov.ru/
<u>Polpred.com</u>	Electronic library system Business media. Media review	free access	https://polpred.com/news
Bibliographic databases			
Database "Russian Medicine"	Created at the Central Scientific and Methodological Library, it covers the entire collection since 1988. The database contains bibliographic descriptions of articles from Russian journals and collections, dissertations and their abstracts, as well as Russian and foreign books, institute proceedings, conference materials, etc. Thematically, the database covers all areas of medicine and related fields of biology, biophysics, biochemistry, psychology, etc.	free access	https://rucml.ru/
PubMed	A text database of medical and biological publications in English. PubMed is an electronic search engine with free access to 30 million publications from 4,800 indexed medical journals. The database contains articles published from 1960 to the present, including information from MEDLINE, PreMEDLINE, and NLM. Each year, the portal is updated with more than 500,000 new papers.	free access	https://pubmed.ncbi.nlm.nih.gov/
eLIBRARY.RU	A Russian information portal in science, technology, medicine, and education, containing abstracts and full texts of over 13 million scientific articles and publications. The eLIBRARY.RU platform offers electronic versions of over 2,000 Russian scientific and technical journals, including over 1,000 open-access journals.	Full functionality of the site is available after registration.	http://elibrary.ru/defaultx.asp
Electronic library of dissertations	Currently, the Electronic Library of Dissertations of the Russian State Library contains more than 919,000	free access	http://diss.rsl.ru/?menu=disscatalog/

(RSL)	full texts of dissertations and abstracts.		
Medline.ru	Medical and biological portal for specialists. Biomedical journal.	free access	https://journal.scbmt.ru/jour/index
Official Internet portal of legal information	The single official state information and legal resource in Russia	free access	http://pravo.gov.ru/