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MINISTRY OF EDUCATION AND SCIENCE OF RUSSIA

**Federal State Budgetary Educational Institution
of higher education**

**«I.N. Ulianov Chuvash State University»
(FSBEI of HE «I.N. Ulianov Chuvash State University»)**

Medical Faculty

Department of Propaedeutics of Internal Diseases with a course of radiation diagnostics

«APPROVE»

Vice-rector for Academic Affairs


I.E. Poverinov

« 13 » 04 2022

**Working programs of the discipline (module)
«Общий уход за больными / General Patient Care»**

Direction of training / specialty 31.05.03 Стоматология / Dentistry
Graduate's qualification Врач-стоматолог / Dental Practitioner

Direction (profile) / specialization «Dentistry»

Form of training – очная / intramural

Course – 1

Term – 1

Total academic hours/credit points – 72/2

The year of beginning the training – 2022

The fundamental document for compiling the working program of the discipline (module)
Федеральный государственный образовательный стандарт высшего образования -
специалитет по специальности 31.05.03 Стоматология (приказ Минобрнауки России от
12.08.2020 г. № 984)

Approved by:

Professor, Doctor of Medical Sciences M.Yu. Sapozhnikov

The working program was approved at the meeting of the Department of Propaedeutics of
Internal Diseases with a course of radiation diagnostics,

25.03.2022, protocol № 8

Head of the department V.N. Diomidova

Approved by

Dean of the Medical Faculty V.N. Diomidova

Acting Head of the Educational and Methodological Department E.A. Shirmanova

1. The purpose and objectives of training in the discipline (module)

The purpose of the discipline - teaching in qualified patient care, the basic principles of medical ethics and deontology, as well the ability to use medical equipment and tools.

The objectives of the discipline - 1. Familiarization with the organization of work of hospital departments:

work schedule, procedure for admission and discharge of patients, documentation, rules for the storage and use of medicines, sanitary regime, room for medical procedures, food block, etc.

2. The study of the functional responsibilities of junior medical staff, ward and procedural nurses.

3. Assimilation of deontological aspects of patient care.

4. Familiarization with the work of the admission department (the procedure for admission, anthropometry, sanitization, filling out documentation, transporting patients, etc.).

5. Study of the organization of care.

6. Mastering the manipulation of the rules of personal hygiene of patients.

7. Introduction to the basic principles of therapeutic nutrition, food management, artificial nutrition.

8. Mastering the skills of first aid in emergency situations (artificial respiration, indirect massage of the heart, first aid for vomiting, suffocation, etc.).

9. Learning the rules of HIV prevention.

2. The place of practical training in the structure of the educational program of higher education

The discipline «Общий уход за больными / General Patient Care» относится к обязательной части учебного плана refers to the mandatory part in the curriculum of the educational program of higher education (hereinafter referred to as the EP of HE) in the field of training / specialty 31.05.03 Стоматология, direction (profile) / specialization of the program «Dentistry».

Previous academic disciplines (modules) and (or) practices that form the knowledge, skills and abilities necessary for training in the discipline (module):

3. Planned learning outcomes in the discipline (module), correlated with the planned learning outcomes

Planned learning outcomes in the discipline (module), correlated with the planned learning outcomes

Code and name of the competence	Code and name of the competence achievement	Descriptors for the indicator of competence achievement (learning)
УК-9 Способен использовать базовые дефектологические знания в социальной и профессиональной сферах / He/she is able to use basic speech pathology knowledge in the social and professional spheres	УК-9.1 Имеет представления о нозологиях, связанных с ограниченными возможностями здоровья. / He/she has an understanding of the nosologies associated with health limitations.	
УК-9 Способен использовать базовые дефектологические знания	УК-9.2 Способен проявить терпимость к особенностям лиц с	

<p>в социальной и профессиональной сферах / He/she is able to use basic speech pathology knowledge in the social and professional spheres</p>	<p>ограниченными возможностями здоровья в социальной и профессиональной сферах / He/she is able to show tolerance to the peculiarities of persons with disabilities in the social and professional spheres</p>	
<p>УК-9 Способен использовать базовые дефектологические знания в социальной и профессиональной сферах / He/she is able to use basic speech pathology knowledge in the social and professional spheres</p>	<p>УК-9.3 Способен к взаимодействию с людьми с инвалидностью и ограниченными возможностями здоровья в социальной и профессиональной сферах / He/she is able to interact with people with disabilities in the social and professional spheres</p>	
<p>ОПК-10 Способен организовывать работу младшего и среднего медицинского персонала по уходу за больными / He/she is able to organize the work of junior and middle medical personnel for the care of patients</p>	<p>ОПК-10.1 Способен анализировать правила, порядки и функциональные обязанности медицинского персонала при осуществлении ухода за больными / He/she is able to analyze the rules, procedures and functional responsibilities of medical personnel in implementing the patient care</p>	
<p>ОПК-10 Способен организовывать работу младшего и среднего медицинского персонала по уходу за больными / He/she is able to organize the work of junior and middle medical personnel for the care of patients</p>	<p>ОПК-10.2 Способен разработать план мероприятий по уходу за больными / He/she is able to develop a plan of measures to care the patients</p>	
<p>ОПК-10 Способен организовывать работу младшего и среднего медицинского персонала по уходу за больными / He/she is able to organize the work of junior and</p>	<p>ОПК-10.3 Способен организовывать и осуществлять контроль эффективности и безопасности мероприятий по уходу за больными / He/she is able</p>	

middle medical personnel for the care of patients	to organize and monitor the effectiveness and safety of care activities	
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4. Structure, scope and content of the discipline (module)

Educational activities in the discipline (module) are carried out:

- in the form of students' face-to-face work with the teaching staff of the organization and (or) persons involved by the organization to implement the educational programs on other terms (hereinafter - contact work);

- in the form of students' independent work.

Face-to-face work can be classroom-based, extramural, as well as it can be conducted in an electronic information and educational environment (EIEE).

Learning sessions in the discipline (module) and interim assessment of students are conducted in the form of face-to-face work and in the form of students' independent work.

During learning sessions in the discipline (module) face-to-face work includes: lecture-type classes, seminar-type classes and (or) group consultations, and (or) individual work of students with the teaching staff of the organization and (or) persons involved by the organization to implement the educational programs on other terms (including individual consultations).

Legend:

Lec – lectures, Lab – laboratory work, Pr – practical classes, ICW – individual face-to-face work, IW – independent work.

4.1. Content of the discipline (module)

Section name	The section's content	Formed competences	Competence achievement indicator
Organization of work of MI. General principles and rules of nursing.	Management of treatment facilities		
	Personal hygiene of the patient		
	Nutrition of patients		
	Thermometry		
	Basic physical therapy		
	External use of medicinal substances. Internal administration of medicinal substances		
	Parenteral methods of drug administration		
Organization of work of	Rules for the sampling of		

MI. General principles and rules of nursing.	biological material for medical research		
Features of care for patients with diseases of various organs and systems.	Care for patients with diseases of the respiratory system		
	Care of patients with diseases of the cardiovascular system		
	Care of patients with gastrointestinal diseases		
	Care for patients with urinary system diseases		
	Care for patients with diseases of the nervous system		
	Уход за больными с онкологическими заболеваниями.		
	Care for patients with mental disorders		
	Care for seriously ill and acutely ill patients.		
ICW	Offset		

4.2. Scope of the discipline and types of academic work

Forms of control and types of academic work	Labor intensity of the discipline (module)	
	1	total
1. Face-to-face work:	32,2	32,2
In-class learning in total, including:	32	32
Лабораторные занятия (Лаб)	32	32
Индивидуальная контактная работа (ИКР)	0,2	
2. Independent work of the student:	39,8	39,8

3. Intermediate certification (exam) (зачет)		3a	3a
Total:	academic hours	72	72
	credit units	2	2

№ item	The section's (theme's) name	Face-to face work, including in the electronic information and educational environment, academic hours				IW, academic hours	Total, academ- ic hours
		Lect.	Pr.	Lab.	ICW		
	Organization of work of MI. General principles and rules of nursing.						
1	Management of treatment facilities			2		2	4
2	Personal hygiene of the patient			2		3	5
3	Nutrition of patients			2		2	4
4	Thermometry			2		3	5
5	Basic physical therapy			2		3	5
6	External use of medicinal substances. Internal administration of medicinal substances			2		2	4
7	Parenteral methods of drug administration			2		3	5
8	Rules for the sampling of biological material for medical research			2		2	4
	Features of care for patients with diseases of various organs and systems.						
9	Care for patients with diseases of the respiratory system			2		2	4
10	Care of patients with diseases of the cardiovascular system			2		2	4
11	Care of patients with gastrointestinal diseases			2		2	4
12	Care for patients with urinary system diseases			2		2	4
13	Care for patients with diseases of the nervous system			2		2	4
14	Уход за больными с онкологическими заболеваниями.			2		2	4

15	Care for patients with mental disorders			2		2	4
16	Care for seriously ill and acutely ill patients.			2		2	4
	ICW						
17	Offset	0,2				3,8	4
Total academic hours		0,2		32		39,8	72

4.3. Summary of the discipline (module), structured by sections (topics)

Раздел 1. Organization of work of MI. General principles and rules of nursing.

Тема 1. Management of treatment facilities

Лабораторное занятие. Organization of work of medical institutions. Types of healthcare facilities. Organization of work of a nurse. Sanitary and epidemiological regime of medical institutions. Medical documentation

Тема 2. Personal hygiene of the patient

Лабораторное занятие. Personal hygiene of the patient. Change of underwear and bed linen, methods of preventing bedsores, care of teeth, tongue, ears, sequence of actions when instilling eye drops and laying ointment behind the eyelid, the order of supply of the bedpan and urinal. Sanitation.

Тема 3. Nutrition of patients

Лабораторное занятие. Ways of nutrition of patients. Diets. The concept of medical nutrition. The concept of diet menus. Planning of a therapeutical diet menu. Order of distribution of food. Feeding severe, exhausted patients in bed. The concept of artificial nutrition.

Тема 4. Thermometry

Лабораторное занятие. Thermometers, storage and disinfection. Methods of measuring body temperature. Registration the results of temperature measurement. The concept of fever. Types of fever. Care for fever patients.

Тема 5. Basic physical therapy

Лабораторное занятие. The mechanism of action, preparation of the patient and the technique of setting fire cups, mustard plasters, warming and cold compresses, supplying a heating pad, an ice pack. Features of the implementation of the simplest physiotherapy procedures for patients of elderly and senile age. Monitoring patients during procedures and providing first aid in the event of complications.

Тема 6. External use of medicinal substances. Internal administration of medicinal substances

Лабораторное занятие. Enteral way of administration of drugs. Distribution of tablets, powders, capsules, solutions, potions, drops. Administration of medications to patients in the presence of a nurse. Use of suppositories (candles). External ways of administration of medications. The use of ointments, solutions, powders, patches.

Тема 7. Parenteral methods of drug administration

Лабораторное занятие. Parenteral way of administration of drugs. Device syringe and needles. Assembly of sterile syringe. Set of medicines from ampoules and vials. Rules of antibiotic breeding. Delivery of syringe to the patient's bed. Preparation of the patient's skin for injection. Technique of subcutaneous and intramuscular injections. Possible

complications and their prevention. Features of the administration of oil solutions and bicillin. Intravenous injection technique. Venepuncture. Filling the system for drip intravenous fluid infusion. Technique of intravenous drip infusion. Possible complications and their prevention. The concept of allergic reactions, anaphylactic shock. Pre-medical assistance.

Тема 8. Rules for the sampling of biological material for medical research

Лабораторное занятие. Rules and methods of sampling biological material: urine, feces, sputum. Collection of blood for various analyzes.

Раздел 2. Features of care for patients with diseases of various organs and systems.

Тема 9. Care for patients with diseases of the respiratory system

Лабораторное занятие. Methods of using the inhaler, emergency treatment for hemoptysis and suffocation attack, methods of centralized oxygen supply, the use of the Bobrov apparatus.

Тема 10. Care of patients with diseases of the cardiovascular system

Лабораторное занятие. Features of changing underwear and bedding in patients with cardiological profile, feeding patients with diseases of the circulatory system. Measurement of BP, examination of the pulse, sequence of providing pre-medical assistance in myocardial infarction, hypertensive crisis, fainting.

Тема 11. Care of patients with gastrointestinal diseases

Лабораторное занятие. Nutrition of patients with diseases of the gastrointestinal tract. Principles of emergency assistance in the case of gastric bleeding. Preparation of the patient for radiological and endoscopic examination of the gastrointestinal tract.

Тема 12. Care for patients with urinary system diseases

Лабораторное занятие. Principles of emergency care. Methods of catheterization of the bladder, emergency assistance in renal colic, urinary hesitancy.

Тема 13. Care for patients with diseases of the nervous system

Лабораторное занятие. Features of care for patients with limited mobility. Nutrition of neurological patients with impaired swallowing.

Тема 14. Уход за больными с онкологическими заболеваниями.

Лабораторное занятие. Problems of incurable, dying patients. Ethical principles of work with dying patients and their relatives. Assessment of quality of life and ways of its optimization. Algorithms of simple nursing manipulation in the care of bedridden patients. Care for the stoned patients. Training the patient in self-management and home care for the terminally ill.

Тема 15. Care for patients with mental disorders

Лабораторное занятие. Features of care for patients with mental disorders. Urgent states in disorders of the psyche. Behavior of medical personnel with aroused, delusional, depressive patients.

Тема 16. Care for seriously ill and acutely ill patients.

Лабораторное занятие. Fundamentals of emergency care for seriously ill and agonizing. The concept of resuscitation. Care of the unconscious patient. Statement of death

and rules for handling the corpse.

Раздел 3. ICW

Тема 17. Offset

Лекционное занятие. Индивидуальная контактная работа (зачет)

5. Educational technologies

To implement the competence-based approach in the study of the discipline (module), extensive use of active and interactive methods of conducting classes in the educational process is provided:

6. Forms of control and types of evaluation materials for the discipline (module)

Intermediate attestation - evaluation of intermediate and final results of training in the discipline (module).

6.1. Sample list of questions for the credit test

1. Preparation of chlorine disinfecting solutions.
2. Determination of the patient's height and body mass.
3. Determination of chest circumference.
4. Counting the number of respiratory movements.
5. Transport of the patient on a wheelchair, stretcher-wheelchair and by hand (stretcher).
6. Change of bed and bed linen to a seriously ill person.
7. Dilivering of a badpan.
8. Washing the patient.
9. Conduct of the oral toilet.
10. Burying drops in the eyes and washing the eyes.
11. The ability to put eye ointment behind the lower eyelid of a tube and an eye spade.
12. Burying drops in the ears.
13. Carrying out of toilet ears.
14. Nose Toilet Exercise.
15. Burying drops in the nose.
16. Body temperature measurement and temperature record.
17. Mustard plasters application.
18. Arrangement of fire cups.
19. Use of leeches.
20. Installation of local warming compress.
21. Installation of cold compress.
22. Preparation and supply of heating pads to the patient.
23. Prepare and serve an ice pack to the patient.
24. Carrying out rubbing, lubricating the skin with a drug.
25. A set in a syringe of a medicinal solution from an ampoule and a vial.
26. Breeding antibiotics.
27. Intradermal injection.
28. Subcutaneous injection.
29. Intramuscular injection.
30. Intravenous injection.
31. Filling the system for intravenous drip administration of medicinal substances.

32. Carrying out intravenous drip infusion.
 33. Putting a tourniquet on the shoulder.
 34. Providing first aid in case of sudden shortness of breath (suffocation).
 35. Collection of sputum for laboratory testing.
 36. First aid for hemoptysis and pulmonary hemorrhage.
 37. Carrying out oxygen therapy in various ways.
 38. Ability to use a pocket inhaler.
 39. Determination of the main characteristics of the arterial pulse on the radial artery.
 40. Measurement of blood pressure.
 41. Registration of the results of the study of arterial pulse and blood pressure.
 42. Providing first aid for vomiting.
 43. Carrying out an examination of the oral cavity.
 44. Taking a smear from the throat and nose for bacteriological examination.
 45. Carrying out gastric lavage with a thick probe.
 46. Probing of the stomach with a thin probe. Fractional study of gastric juice
 47. Conducting duodenal probing.
 48. Introduction of a vapour pipe.
 49. Performing a purifying enema.
 50. Staging a clove enema.
 51. Oil and hypertensive enema.
 52. Prescription of a medicinal enema.
 53. Determination of water balance.
 54. Collection of urine for laboratory examination.
 55. Zimnitsky test performing.
 56. Bladder catheterization
 57. Performing indirect heart massage.
 58. Artificial respiration.
 59. Emergency first aid for seizures.
 60. Emergency pre-treatment for angina.
 61. Emergency pre-medical care for myocardial infarction.
 62. Emergency first aid for bronchospasm.
 63. Emergency first aid for renal colic.

6.2. Sample list of questions for the examination

not provided

6.3. Suggested themes of term papers (projects)

not provided

6.4. Suggested themes of term projects

not provided

6.5. Suggested topics of calculation and graphic works

not provided

7. Educational, methodological, informational and software support of the discipline (module)

The electronic catalog and electronic information resources provided by the scientific library of the FSBEI of HE "I. N. Ulianov Chuvash State University" are available at the link <http://library.chuvsu.ru/>

7.1. Regulatory documents, standards and rules

7.2. Recommended basic educational and methodological literature

№ item	Name
1	

7.3. Recommended supplementary educational and methodological literature

№ item	Name
1	

7.4. List of resources of the "Internet" information and telecommunication network

№ item	Name	Link to the resource
1	Сайт кафедры пропедевтики внутренних болезней с курсом лучевой диагностики. - Текст : электронный // Кафедра пропедевтики внутренних болезней с курсом лучевой диагностики [сайт]. - URL: http://propedevtika-med.ru/ (дата обращения 15.06.2019)	http://propedevtika-med.ru/
2	ЭБС Консультант студента. - Текст : электронный // ЭБС Консультант студента [сайт]. - URL: http://www.studentlibrary.ru/ (дата обращения 15.06.2019)	http://www.studentlibrary.ru/
3	ЭБС Юрайт. - Текст : электронный // ЭБС Юрайт [сайт]. - URL: https://www.biblio-online.ru/ (дата обращения 15.06.2019)	https://www.biblio-online.ru/

7.5. Software, professional databases, information and reference systems, electronic educational resources and electronic library systems

Software, professional databases, information and reference systems provided by the Informatization Department of the FSBEI of HE "I.N. Ulianov Chuvash State University" are available for download at the link <http://ui.chvsu.ru/>. The Unified Register of Russian programs for electronic computers and databases, including freely distributed ones, is available at the link reestr.minsvyaz.ru/reestr/.

7.5.1. Licensed and freely distributed software

Microsoft Windows operating System and/or Unix-like operating system and/or mobile operating system;

Office software packages:

Microsoft Office and/or LibreOffice
and (or) OpenOffice and (or) analogues;

Browsers, including Yandex.Browser.

List of software:

7.5.2. Lists of professional databases and (or) information reference systems and (or) electronic library systems and (or) electronic educational resources

8. Material and technical support of the discipline

Classrooms for lecture-type classes in the discipline are equipped with a teacher's automated workplace consisting of: a personal computer/laptop, multimedia equipment with a screen and (or) SMART interactive whiteboard/SMART TV.

The premises for students' independent work are equipped with computer equipment enabling to connect to the Internet and provide access to the electronic information and educational environment of the FSBEI of HE "I.N. Ulianov Chuvash State University".

№ item	Lesson type	Brief description and characteristics of the composition of installations, measuring and diagnostic equipment, computer equipment and experimental automation tools
1		

9. Means of adapting the discipline teaching to the needs of persons with physical conditions

If necessary, persons with physical conditions can be offered one of the following options for perceiving information, taking into account their individual psychophysical characteristics:

1) using e-learning and distance learning technologies.

2) using special equipment (enginery) and software in accordance with the students' health restrictions in the Training Centers for Persons with Disabilities and Physical Conditions (hereinafter referred to as special needs) available at the university.

In the course of training, if necessary, the following conditions are provided for persons with visual, hearing and musculoskeletal disorders:

- for persons with visual impairments: educational and methodological materials in printed form in enlarged font; in the form of an electronic document; in the form of an audio file (conversion of educational materials into audio format); in printed form in Braille; individual consultations involving a tactile interpreter; individual assignments and consultations.

- for people with hearing impairments: educational and methodological materials in printed form; in the form of an electronic document; video materials with subtitles; individual consultations involving a sign language interpreter; individual assignments and consultations.

- for persons with disorders of the musculoskeletal system: educational and methodological materials in printed form; in the form of an electronic document; in the form of an audio file; individual assignments and consultations.

10. Guidelines for students to perform independent work

The purpose of the student's independent work (IW) is to consolidate the theoretical knowledge gained and to acquire practical skills in using and performing research of algorithms and data structures when designing application software programs. IW includes

independent study of educational issues, preparation for laboratory classes, performing calculation and graphic work, preparation for a test and an exam.

The list of questions and tasks for independent work to prepare for laboratory classes is given in the corresponding methodological instructive regulations in the description of each laboratory work.

The list of questions and tasks for independent work to carry out calculation and graphic work is given in the relevant methodological instructive regulations.

Independent work of students is an integral part of the educational process. The purpose of independent work of students is to master fundamental knowledge, professional skills, experience in creative, research activities.

The main forms of organization of independent work of students are: classroom independent work under the guidance and supervision of a teacher (at lectures, practical, laboratory classes, etc. and consultations); extracurricular independent work under the guidance and control of the teacher (at consultations, during research work), extracurricular independent work - the planned educational, teaching and research, research work of students, performed outside the classroom on the instructions and with the methodological guidance of the teacher, but without his direct involvement.

When performing independent work, students should rely mainly on the knowledge and skills gained in lectures, practical, laboratory classes, group and individual classes. This provides the necessary basis for further in-depth study of other disciplines. However, this knowledge needs to be activated.

The forms of independent work of students, provided for by the discipline, include:

- Preparation for practical, laboratory classes, group and individual lessons.
- Independent study of educational issues.
- Preparation for the test / exam.

For self-preparation for practical, laboratory, group and individual classes, study of educational issues, preparation for tests and exams, the following sources are recommended:

- lecture notes and materials of practical, laboratory, group and individual lessons;
- educational (scientific) literature of the relevant profile;
- Internet resources.

At the beginning of the course, the teacher informs students about the forms, types and content of independent work, explains the requirements for the results of independent work, as well as the forms and methods of control and evaluation criteria.

According to the questions proposed by the teacher, the student studies the content of the recommended sections, chapters, paragraphs, textbooks, manuals and monographs; statistical collections; reviews; articles in periodicals. Normative legal acts are studied using the legal bases "Consultant - Plus" or "Garant", as well as Internet resources. The forms of control of such individual work are surveys in practical, group and individual classes, checking notes, conclusions.

Individual tasks of a creative orientation involve:

- preparation of analytical individual work on the subject proposed by the teacher. The completed task is evaluated taking into account the quality of the analysis, identification of factors, causes, conditions for changes, trends; substantiating conclusions; proposals put forward by the author;

- preparation for a discussion, for a business game, etc.;
- a critical review of articles from the list recommended by the teacher, etc.

Test tasks are a form of current control. They are designed to highlight the main provisions of the discipline, understand the features based on theory, repeat and consolidate educational material, test knowledge, and control residual knowledge.

Topics submitted for independent study, students need to take notes. The summary briefly outlines the main essence of the educational material, provides the necessary tabular

data, diagrams.

The main stages of independent study of educational issues:

1. Initial acquaintance with the material of the topic under study according to the text of the textbook.
2. Highlighting the main thing in the material being studied, compiling the usual brief notes.
3. Selection of reference signals for this text in the form of separate words, figures.
4. Thinking over a schematic way of coding knowledge, using a different font, etc.
5. Drawing up a basic abstract.

Independent work of students is an integral part of the educational process. The purpose of independent work of students is to master fundamental knowledge, professional skills, experience in creative, research activities.

11. Methodological instructive regulations for students studying the discipline (module)

Forms of independent work of students, provided by the discipline:

- Preparation for laboratory exercises;
- Independent study of educational issues;
- Preparation for the standings;

The following sources can be recommended for self-preparation for laboratory exercises, study of educational issues, preparation of the test:

- Laboratory materials;
- Relevant educational literature.

At the beginning of the course, the teacher informs the students about the forms, types and content of independent work, explains the requirements for the results of independent work, as well as the forms and methods of monitoring and evaluation criteria.

11.1. Methodological instructive regulations for preparing for seminar-type classes

The leading goal of laboratory work is to consolidate theoretical knowledge and skills of the basics of clinical thinking, mastering the skills and abilities of patient care. The content of laboratory work: analysis of patient care issues, training and strengthening of patient care skills that are part of professional practical training, as well as research skills (observe, compare, analyze, establish dependencies, draw conclusions and generalizations, independently conduct research, draw up results).

Laboratory studies can be of a reproductive, partially - search and search character.

Works that are of a reproductive nature are distinguished by the fact that when they are carried out, students use detailed instructions that indicate: the purpose and tasks of the work, explanations (theoretical foundations), the order of work, control questions, educational and special literature.

Works that are partially exploratory in nature are distinguished by the fact that during their implementation, students do not use detailed instructions, they are not given the procedure for performing the necessary actions, and require students to independently conduct an analysis, choose ways to perform work in instructive and reference literature, etc.

Research works are characterized by the fact that students must solve a new research problem for them, based on their theoretical knowledge.

Forms of organization of students in laboratory classes: frontal, group and individual.

11.2. Methodological instructive regulations for preparing for an examination

not provided

11.3. Methodological instructive regulations for preparing for a test

Preparing students for graduation includes:

- viewing the program of the training course;
- determination of the sources necessary for the preparation (textbooks, additional literature, etc.) and their study;
- use of lecture notes, laboratory materials;
- Counseling with a teacher.

Preparation for the test begins with the first lesson in the discipline, in which students receive a general attitude from the teacher and a list of basic requirements for current and final reporting. At the same time, it is important from the very beginning to systematically master the material, guided, first of all, by the list of questions for the test, to outline the sources that are important for solving educational problems. During the semester, there is a replenishment, systematization and adjustment of learning developments, the development of new and consolidation of already studied material.

11.4. Methodological instructive regulations for performing computational and graphical

not provided

11.5. Methodological instructive regulations for performing a control work

not provided

11.6. Methodological instructive regulations for performing a course work (project)

not provided

List of additions and changes

The name and details (if any) of the document attached to the Working Program of the discipline (module) containing the text of updates	Department's decision		Full name of department head:
	Date	Protocol №	