

Ministry of Science and Higher Education of the Russian Federation
Federal State Autonomous Institution of Higher Education
“National Research Nuclear University “MEPhI”

INSTITUTE OF ENGINEERING PHYSICS FOR BIOMEDICINE

DEPARTMENT OF FUNDAMENTAL MEDICINE

APPROVED ИТС ИФИБ

Protocol No. 3.1

dated 30.08.2024

ACADEMIC COURSE OUTLINE

INTRODUCTORY EDUCATIONAL PRACTICE

Educational program track (speciality) [1] 31.05.01 General Medicine

Educational program title (specialization) General Medicine

Semester	Labour input, credits	Total course academic, hours	Practical sessions, hrs.	In the form of practical studies, hrs.	Independent studies, hrs.	Course progress, Exam/Pass-fail exam/Term
3	3	108	36		72	
Total	3	108	36	0	72	Ex

ABSTRACT

The introductory training program is designed based on the requirements for mastering the specialist program.

Specifically, the graduate (general practitioner) must be prepared to address the challenges of organizing patient care in healthcare facilities within the framework of primary health care, as well as the organization and oversight of the activities of nursing staff. The internship also introduces students to various types of professional activities and provides insight into the place and role of a physician.

1. ACADEMIC COURSE GOALS AND OBJECTIVES

GOALS

To develop competencies in organizing and implementing patient care, providing first aid, and interacting with colleagues and patients in an ethical and deontological manner. To familiarize students with various types of professional activity, providing an understanding of the place and role of a physician.

OBJECTIVES

- To familiarize students with the structure, principles, and organization of multidisciplinary medical institutions and their departments, and with various types of professional activity of a physician in providing medical care (medical and organizational-managerial tasks), providing an understanding of the place and role of a physician.

- To acquire skills and abilities in organizing and implementing patient care and providing first aid;

- Acquisition of skills and abilities in interacting with colleagues and patients in an ethical and deontological manner.

2. PLACE OF THE ACADEMIC COURSE IN THE MAIN HIGHER EDUCATION CURRICULUM

The introductory educational practice is a mandatory part of the specialist degree program.

To successfully complete this practice, the following knowledge, skills, and abilities are required:

"Latin Language"

Know:

- Basic medical and pharmaceutical terminology in Latin

Be able to:

- Read, write, and understand basic medical terminology in Latin

"Medical and Biological Physics"

Know:

- Safety regulations and laboratory work;

- Basic laws of physics; physical phenomena and patterns underlying processes occurring in the human body;

- Characteristics and biophysical mechanisms of the effects of physical factors on the body;

- The physical nature of processes occurring in a living organism at various levels.

Be able to:

- Predict the direction and outcome of physical processes.

Master:

- the concept of measurement results reliability

Chemistry

Know:

- safety regulations and laboratory work practices;
- the physicochemical nature of processes occurring in a living organism;
- the main types of chemical equilibria in life processes, the mechanism of action of the body's

buffer systems;

- the concept of electrolyte balance in the human body, the properties of solutions (diffusion, osmosis);

- the role of biogenic elements and their compounds in living organisms, the use of their compounds in medical practice;

- the basics of hemoglobin chemistry, its role in gas exchange and the maintenance of acid-base balance.

Master:

- the concept of reliability in conducting physicochemical studies of biological fluids

Anatomy

Know:

- the anatomical structure of the body and the sex- and age-related developmental characteristics of a healthy organism

Be able to:

- palpate the main bone landmarks in a human, outline the topographic contours of organs and the main vascular and nerve trunks. Master:

- medical and anatomical concepts; basic medical instruments

"First Aid and Patient Care"

Know:

Principles of organizing a medical facility.

Organization of work for junior and mid-level medical personnel in inpatient therapeutic departments.

Types of patient sanitization.

Methods of patient transportation.

Principles of therapeutic nutrition for patients.

Methods and techniques of thermometry, rules for handling thermometers

Rules for maintaining a temperature record. Types of fever.

Basic measures for influencing the patient's body (compresses, mustard plasters, medicated plasters, cupping) and their mechanism of action.

The most common methods and routes of drug administration.

Techniques for administering subcutaneous, intramuscular, and intravenous injections.

Requirements for pre-sterilization processing of medical instruments, sterilization, and disposal of medical waste.

Types and techniques of administering enemas.

Technique for inserting a gastric tube.

Rules for administering oxygen therapy in the ward.

Techniques for measuring blood pressure, counting the radial pulse, and counting breaths per minute.

Rules for collecting and decontaminating sputum.

Determining daily diuresis.

Rules for collecting urine for clinical analysis, the Nechiporenko test, determining daily glucosuria and proteinuria, and the three-glass test.

Rules for collecting urine for the Zimnitsky test and technique for performing the test.

Specifics of preparing patients for X-ray examination of the gallbladder and colon

Specifics of preparing patients for endoscopic examination of the esophagus, stomach, small intestine, and colon.

Specifics of monitoring and caring for patients with diseases of the respiratory, cardiovascular, digestive, and urinary systems.

Specifics of monitoring and caring for elderly and senile patients.

Specifics of monitoring and caring for seriously ill and dying patients. Pre-hospital measures in emergency situations.

Concepts: clinical and biological death (signs).

Cadaver handling rules.

The introductory training is preceded by the course "First Aid and General Nursing." The knowledge, skills, and abilities acquired through the course "First Aid and General Nursing" and the introductory training are necessary for successful completion of the Industrial Internship, which provides professional skills and experience in mid-level medical positions ("Nursing Internship").

3. DEVELOPED COMPETENCIES AND INTENDED LEARNING OUTCOMES

Universal and/or general professional competencies:

Competency code and title	Code and title of competency-based rubrics
<p>OIIK-1 [1] – Capable of implementing moral and legal norms, ethical and deontological principles in professional activities.</p>	<p>3-OIIK-1 [1] – Know: - main regulatory legal acts governing physician's activities; - concepts of medical confidentiality, informed voluntary consent for medical intervention, clinical guidelines, procedures and standards of medical care; - fundamental rights and obligations of physicians and patients; - principles of medical ethics (morality) and deontology. Y-OIIK-1 [1] – Be able to: - find and apply current regulatory legal acts in professional activities; - protect the rights of physicians and patients. B-OIIK-1 [1] – Possess skills in: - interaction with colleagues and patients in compliance with ethics and deontology; - obtaining informed voluntary consent from patients or their legal representatives for medical interventions.</p>
<p>OIIK-4 [1] – Capable of using medical devices stipulated by the medical care procedures, as well as conducting patient examination for diagnosis establishment.</p>	<p>3-OIIK-4 [1] – Know: - modern diagnostic instrumental examination methods for patients, including functional, radiological, ultrasound, radionuclide diagnostics, and endoscopy; - diagnostic capabilities of instrumental examination methods; - medical devices stipulated by the procedure for</p>

	<p>providing medical care to the adult population in the "Therapy" specialty, and the equipment standard for a therapeutic room; - main medical devices stipulated by the procedures for providing medical care to the adult population in major surgical specialties, obstetrics, and gynecology; - indications for referring patients for instrumental examinations and functional diagnostics; - techniques for physical examination of patients using medical devices stipulated by procedures and considering medical care standards</p> <p>Y-OPIK-4 [1] – Be able to: - use medical devices stipulated by the medical care procedure; - determine the required volume and content of instrumental and functional diagnostics to establish a diagnosis; - interpret results of the most common functional and instrumental diagnostic methods</p> <p>B-OPIK-4 [1] – Possess skills in: - using basic medical devices (stethoscope, blood pressure monitor, sphygmomanometer, pulse oximeter, height-weight scale, measuring tape, neurological hammer, scalpel, forceps, and other devices); - operating electrocardiographs and devices for measuring external respiratory function; - interpreting results of the most common functional and instrumental diagnostic methods</p>
<p>OPIK-6 [1] – Capable of organizing general nursing, providing primary medical care, ensuring the organization of work and making professional decisions in emergencies at the pre-hospital stage, in emergency situations, epidemics and in areas of mass destruction</p>	<p>3-OPIK-6 [1] – Know: - a set of measures for general nursing with diseases of various organs and systems; Signs of clinical and biological death; - indications for patient hospitalization for the most common diseases with typical progression.</p> <p>Y-OPIK-6 [1] – Be able to: - organize care for patient when providing medical care in an outpatient setting; - determine the need for patient hospitalization; - ensure the organization of work in emergency situations, epidemics, and in mass casualty zones.</p> <p>B-OPIK-6 [1] – Possess skills in: - general care of a patient (general nursing); - providing first aid; - making medical decisions in emergencies at the prehospital stage, including in emergency situations, epidemics, and in mass casualty zones.</p>
<p>YK-8 [1] – Capable of creating and maintaining safe living conditions in everyday life and professional activities to preserve the natural environment and ensure sustainable development of society, including in the event of the threat or occurrence of emergency situations and military conflicts.</p>	<p>3-YK-8 [1] – Know: - the main natural and man-made hazards, their properties and characteristics, the nature of the impact of harmful and hazardous factors on humans and the environment, methods of protection against them in relation to the sphere of their professional activity; - rules of conduct in the event of emergency situations of natural and man-made origin; - fundamentals of legislation in the field of sanitary and epidemiological well-being of the population, protection from emergency situations, and occupational safety; - methods of protection from dangers in the event of emergency situations during military operations or as a result of these actions.</p> <p>Y-YK-8 [1] – Be able to: - identify hazardous and harmful environmental factors within the context of ongoing activities, in emergency situations, and in military conflicts; - select methods of protection against hazards applicable to the scope of their professional activities and ways to ensure comfortable living conditions; - assess the sanitary and epidemiological situation in</p>

	order to create and maintain safe living conditions. B-YK-8 [1] – Possess the following skills: - use of personal and collective protective equipment; - provision of first aid to victims; - rationalization of professional activities in order to ensure safety and environmental protection.
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4. PEDAGOGIC POTENTIAL OF THE COURSE

Pedagogic tracks/objectives	Pedagogic goals (code)
Professional education	Establishing conditions for: formation of responsibility for professional choice, professional development and professional decisions (B18)
Professional education	Establishing conditions for: formation of the ability and commitment to adhere to professional norms that ensure the ethical character of both work activities and personal conduct outside of work (B21)
Professional education	Establishing conditions for: formation of motivation to improve the quality of medical care to the population and the desire to follow the rules and norms of interaction between the doctor, colleagues and the patient, contributing to the creation of the most favorable environment for the patient's recovery (B34)

5. ACADEMIC COURSE STRUCTURE AND CONTENT

Academic course sections, their scope, terms of study and assessment:

No.	Academic course section name	Weeks	Lectures/ Practical (seminars)/ Laboratory sessions, hrs.	Compulsory current assessment (form*, week)	Maximum grade per section**	Section assessment (form*, week)	Competency-based rubrics
	<i>3 Semester</i>						
1	Introductory Training	1-2	0/36/0	Rep-2 (50)	50	Rep-2	B-ОПК-1, B-ОПК-4, У-ОПК-6, B-ОПК-6, B-УК-8
	<i>Totals for 3 Semester</i>		0/36/0		50		
	Assessment events for 3 Semester				50	Ex	3-ОПК-1, У-ОПК-1, B-ОПК-1, 3-ОПК-4, У-ОПК-4, B-ОПК-4,

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* – abbreviated name of assessment

** – 100 maximum points per semester including a pass/fail exam and (or) an exam

Abbreviated current assessment forms and section assessment

Abbreviation	Full name
Rep	Report

SYLLABUS

Weeks	Topics / Content	Lect., hrs.	Pr./sem., hrs.	Lab., hrs.
	<i>3 Semester</i>	0	36	0
1-2	Introductory Training	0	36	0
1 - 2	Introductory Training Organization of the hospital admissions department. Safety briefing. Organization of diagnostic departments and/or offices. Organization of the hospital pharmacy and sterilization department. Organization of the pathology department. Cadaver handling procedures. Organization of the therapy department, surgical department, and intensive care unit. Medical documentation, its types, and requirements for maintenance, security, and confidentiality. Familiarization with filling out the title page of an inpatient and/or outpatient medical record, preparation of prescription sheets and temperature sheets, and rules for obtaining and dispensing medications. Hospital sanitary regulations and their importance. Nosocomial infection and disinfection. Rules for cleaning, lighting, and heating of wards and common areas. Monitoring the sanitary condition of bedside tables and wards, ventilation, and the use of air disinfection devices in wards and medical offices. Health education for medical personnel. Clinical hygiene for medical personnel. Appearance requirements. Medical clothing, personal protective equipment, and hand sanitization procedures. Organizing interactions between medical personnel and patients. Standards of communication between medical personnel and patients. Informed voluntary consent for medical interventions.	All 0 Online 0	36 0	0 0

<p>Clinical hygiene for patients. Admission of patients, examination for lice, sanitization of patients, anthropometry, and temperature measurements.</p> <p>Transportation of patients. Positioning the patient on a functional bed.</p> <p>Administering medications to patients, administering eye, nose, and ear drops, using cooling agents, heating pads, and applying compresses.</p> <p>Caring for the patient's skin and hair, preventing bedsores, changing underwear and bed linen. Caring for the oral cavity, eyes, ears, and nose. Caring for drainage systems.</p> <p>Therapeutic nutrition. Organizing feedings for patients, including tube feedings. Tube care. Providing a bedpan and urine bag. Washing patients. Organizing urine collection, determining daily urine output, and performing the Zimnitsky test.</p> <p>Monitoring patient hemodynamics and respiration. Oxygen therapy in the ward.</p> <p>Pre-sterilization treatment of reusable medical devices, collection and sorting of medical waste.</p> <p>Catheterization of the bladder with a soft catheter. Care of urinary catheters.</p> <p>Preparing the patient for instrumental examinations and surgery. Administering various types of enemas. Inserting a gastric tube, performing gastric lavage.</p> <p>Specific aspects of caring for patients with various illnesses and ages, as well as skills in caring for seriously ill and dying patients.</p>			
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Abbreviated names of online options:

Abbreviation	Full name
EC	E-course
FtM	Full-text material
FtL	Full-text lectures
VM	Video materials
AM	Audio materials
Prs	Presentations
T	Tests
ERM	E-reference materials
IS	Interactive site

6. EDUCATIONAL TECHNOLOGIES

The introductory educational internship is conducted in a traditional format, under conditions that allow students to participate in medical activities and perform specific types of work related to their future profession.

Simulation technologies are used to develop first aid skills.

Students demonstrate their acquired skills during the internship report defense in a simulated environment.

7. ASSESSMENT TOOLKIT

The assessment toolkit ensures verification of the intended learning outcomes achievement (competency-based rubrics) using current, midterm and interim assessment of the course.

The link between developed competencies and their assessment is presented in the following table:

Competency	Achievement rubrics	Assessment activity (Syl 1)
ОПК-1	3-ОПК-1	Ex
	У-ОПК-1	Ex
	В-ОПК-1	Ex, Rep-2, Отч-2
ОПК-4	3-ОПК-4	Ex
	У-ОПК-4	Ex
	В-ОПК-4	Ex, Rep-2, Отч-2
ОПК-6	3-ОПК-6	Ex
	У-ОПК-6	Ex, Rep-2, Отч-2
	В-ОПК-6	Ex, Rep-2, Отч-2
УК-8	3-УК-8	Ex
	У-УК-8	Ex
	В-УК-8	Ex, Rep-2, Отч-2

Educational achievement rubrics scales

The scale of each assessment activity varies from 0 to the maximum established point, inclusive. The final assessment of the course is performed on a 100-point scale and represents the sum of the points earned by the student in the section assessments, framework of current and interim assessment.

Sections and interim assessments are considered passed when the student achieves a minimum score equal to 60% of the maximum. The final grade is assigned only upon passing all sections and the interim assessment.

The final grade is assigned in accordance with the following scale:

Total score	Rating on a 4-point scale	Pass/fail examination	ECTS assessment
90-100	5 – « <i>excellent</i> »	« <i>pass</i> »	A
85-89	4 – « <i>good</i> »		B
75-84			C
70-74			D
65-69			3 – « <i>satisfactory</i> »
60-64	F		
below 60	2 – « <i>fail</i> »	« <i>fail</i> »	

An “excellent” grade indicates a deep and solid mastery of the program material by a student who presents their answers consistently, clearly, and logically, is able to closely link theory with practice, and uses materials from monographic literature in their answers.

A “good” grade corresponds to a student’s solid knowledge of the material, who presents their answers competently and to the point, without any significant inaccuracies.

A “satisfactory” grade corresponds to the basic level of mastery of the material by the student, in which the main material has been mastered, but its details have not been assimilated, the answers contain inaccuracies, insufficiently correct wording and logical inconsistencies.

A grade “pass” corresponds to at least a basic level of mastery of the program material, in which the student possesses the necessary knowledge, skills, and abilities, and is able to apply theoretical principles to solve typical practical problems.

A grade “fail” is given to a student who lacks a significant understanding of the curriculum material, makes significant errors in their answers, or fails all required assignments. These students are generally unable to continue their studies without additional classes.

8. ACADEMIC COURSE EDUCATIONAL, METHODOLOGICAL AND INFORMATIONAL SUPPORT

CORE READING:

1. ЭИ О-85 General Care of a Patient : учебное пособие, Oslopov V.N., Bogoyavlenskaya O.V., Москва: ГЭОТАР-Медиа, 2021
2. ЭИ S36 Introduction to Advanced Nursing Practice : An International Focus, Schober, Madrean. , Cham: Springer International Publishing, 2016
3. ЭИ Ч-82 Общий уход за больными : учебное пособие для вузов, Мурочкина Т. А. [и др.], Москва: Юрайт, 2024

FURTHER READING:

1. ЭИ В 26 Доврачебная помощь при неотложных состояниях : учебник и практикум для вузов, Мурочкина Т. А. [и др.], Москва: Юрайт, 2023
2. ЭИ Р 60 Медико-биологические основы безопасности. Охрана труда : учебник для спо, Аникина Е. В. [и др.], Москва: Юрайт, 2024
3. ЭИ Д 24 Младшая медицинская сестра по уходу за больными : учебник, Бабаян С.Р., Двойников С.И., Тарасова Ю.А., Москва: ГЭОТАР-Медиа, 2021

SOFTWARE:

No special softwares is required

LMS AND ONLINE RESOURCES

<https://online.mephi.ru/>

<http://library.mephi.ru/>

9. LOGISTICAL SUPPORT

1. Симуляционный центр (64-301)
2. Симуляционный центр (64-302)
3. Персональный компьютер: Моноблок Lenovo V540-24IWL All-In-One 23,8" i3-8145U 8Gb 256GB_SSD_M.2 Intel (64-301)
4. Мышь, клавиатура (64-301)
5. Видеокамера Microsoft LifeCam Cinema HD (64-301)
6. Фантом головы с пищеводом и желудком (64-301)
7. Комплект зондов желудочных одноразовых и дуоденальных (64-301)
8. Контейнер для сбор медицинских отходов "Б" (64-301)
9. Контейнер для сбора медицинских отходов "А" (64-301)
10. Стойка (штатив) для инфузионных систем (64-301)
11. Тренажер интубации с контроллером (64-301)
12. Фантом реанимационный (торс) с электрическим контроллером (64-301)
13. Фантом предплечья для внутривенных инъекций с дополнительным вкладышем (64-301)
14. Накладка для инсулиновых, подкожных и внутримышечных инъекций (64-301)
15. Фантом руки для внутривенных инъекций (64-301)
16. Фантом мужской промежности для катетеризации мочевого пузыря (64-301)
17. Фантом женской промежности для катетеризации мочевого пузыря (64-301)
18. Фантом таза для постановки клизмы, внутримышечных инъекций, обработки стом (64-301)
19. Катетеры Фолея и Нелатона (64-301)
20. Видеокамера Microsoft LifeCam Cinema HD (64-302)
21. Кровать функциональная механическая с матрасом и штативом для капельниц (64-302)
22. Фантом человека для сестринского ухода с аускультацией и измерением артериального давления (64-302)
23. Столик процедурный передвижной (64-302)
24. Тонометр для измерения артериального давления механический (64-302)
25. Стетоскоп (64-302)
26. Кровать функциональная механическая с матрасом и штативом для капельниц (64-301)

27. Термометры бесконтактные, термометры аналоговые (64-301)
28. Контейнер для сбор медицинских отходов "Б" (64-301)
29. Контейнер для сбора медицинских отходов "А" (64-301)
30. Стойка (штатив) для инфузионных систем (64-301)
31. Тренажер интубации с контроллером (64-301)
32. Фантом реанимационный (торс) с электрическим контроллером (64-301)
33. Фантом предплечья для внутривенных инъекций с дополнительным вкладышем (64-301)
34. Фантом руки для внутривенных инъекций (64-301)
35. Фантом мужской промежности для катетеризации мочевого пузыря (64-301)
36. Фантом женской промежности для катетеризации мочевого пузыря (64-301)
37. Фантом таза для постановки клизмы, внутримышечных инъекций, обработки стом (64-301)
38. Фантом человека для сестринского ухода с аускультацией и измерением артериального давления (64-302)
39. Столик процедурный передвижной (64-302)
40. Кровать функциональная механическая с матрасом и штативом для капельниц (64-301)
41. Тележка-каталка медицинская (64-401)
42. Фантом человека как полноростовой для отработки навыков транспортировки (64-401)
43. Весы напольные с ростомером медицинские Твес ВМЭН-200С-50/100-СТ (64-301)
44. Кушетка смотровая КМС-01 (64-301)
45. Манекен сердечно-легочной реанимации Р4201СРR ВОЛОДЯ. Модификация 1 (64-301)
46. Учебный автоматический наружный дефибриллятор МУ0353 (64-301)
47. Мешок Амбу КД-МП-В (64-301)
48. Термометры бесконтактные, термометры аналоговые (64-301)
49. Медицинское оборудование для практической подготовки обучающихся, предусмотренное договором (Клиническая база)
50. Тренажер для отработки навыков внутривенных инъекций (на фантомах с различной степенью доступности) (64-302)
51. Фантом человека как полноростовой для отработки навыков транспортировки (64-301)
52. Инвалидное кресло-коляска (64-301)

10. EDUCATIONAL AND METHODOLOGICAL RECOMMENDATIONS FOR STUDENTS

Practice is an integral part of the learning process.

During the internship, the student is required to:

- Fully complete the assignments outlined in the internship program;
- comply with the internal work schedule at the enterprise, institution, or organization;
- study and strictly adhere to occupational health and safety regulations, sanitary norms
- be responsible for the work performed and its results;
- Upon completion of the internship, submit a written report to the Head of practical training on the completion of all assignments and pass (defend) the internship exam.

The student has the right to:

- propose the specialized organization where the student is currently working for the internship (if the professional activity they are pursuing meets the internship requirements).
- obtain advice on all internship-related questions from the management of the specialized organization (medical organization), the internship supervisor, the Head of practical training at the university;
- address any controversial issues to the Head of practical training, department head, or educational program director.

The first stage of practice (introduction)

The Head of practical training will notify students in advance of the actual meeting place on the first day of practical training.

It is mandatory to complete safety training. This should be reflected in the diary.

The Head of practical training assigns students to departments in conjunction with the person responsible for practical training at the medical organization. The practical assignment is clarified and agreed upon, taking into account the specific activities of the specific department within the medical organization.

During the internship, each student completes a daily the ДНЕВНИК-ОТЧЕТ / REPORT document using the prescribed format. The supervisor's notes in the appropriate columns of the diary/report will confirm that the student actually attended the internship that day, mastered certain skills, became familiar with the work of certain departments, etc.

A supervisor is the employee directly supervising the internship. This may be different employees on different days. The Head of practical training and the person responsible for practical training at the medical organization, may also act as supervisor for specific sections.

The second stage of practice is the main one.

Direct implementation by the student of activities to acquire skills and master practical abilities provided for by the internship program.

Ongoing Assessment

The ongoing assessment is conducted through the following methods: monitoring students' completion of relevant sections in the ДНЕВНИК-ОТЧЕТ / REPORT document (including daily report notes and report sections), verifying compliance with safety regulations, internal work procedures, and sanitary standards, conducting interviews, and evaluating students' demonstration of

acquired skills. The Head of practical training may personally monitor the student's progress at any time during practice hours.

Students must be prepared to answer the instructor's questions and demonstrate their practical skills. The maximum score for this section is 50. A student is admitted to the exam (intermediate assessment) only if they have achieved more than 30 points in the ongoing assessment. The grading scale for ongoing assessment is as follows: Excellent: 45-50 points, Good: 36-44 points, Satisfactory: 30-35 points

Assessment Criteria (Ongoing Assessment)

№ Criterion Max. score

1.1 Compliance with safety regulations, sanitary norms and in-ternal work schedule.

Full compliance – 10 points, Partial compliance – 5 points, Non-compliance – 0 points* 10

1.2 Regularity of maintaining the ДНЕВНИК-ОТЧЕТ / REPORT document (including daily report notes and report sections).

Regular (daily) – 10 points, Irregular – 5 points, Not main-tained – 0 points 10

1.3. Interview (answers to questions, demonstration of practical skills)* 30

Σ Total score 50

*The student answers 1 question and selectively demonstrates 2 practical skills. Each successful response is graded with a maximum of 10 points. If minor deficiencies are noted in an otherwise correct answer or satisfactory skill demonstration, the maximum score for each item may be reduced to 5 points. The maximum total score for Criterion 1.3 is 30 points.

The third stage of practice is the final one.

On the penultimate day of practice, the student must complete the diary (obtain all necessary signatures) and write a report in the appropriate section of the ДНЕВНИК-ОТЧЕТ / REPORT document.

The report is based on information about the specific production work performed by the student during the internship (practical activity in a medical organization).

Completing a clinical internship report begins with a description of the internship site and the work schedule at the hospital or clinic. The clinical internship report should detail everything the student did, participated in, and observed, day by day, providing a clear understanding of the student's level of independence in completing a given task.

Create a diary with an analysis of your work. Prepare a presentation of a complex clinical case (diagnosis, treatment, results). Complete a final assessment in the form of an interview on the competencies mastered.

The Head of practical training completes the appropriate section of the ДНЕВНИК-ОТЧЕТ / REPORT document (Professional Characteristics of Students), provides a detailed analysis of the student's completed work, and provides their opinion. The conclusion indicates the level of theoretical and practical training of the student, the quality of the work performed, work discipline, and shortcomings, if any; at the end of the characterization, an assessment is given for the practical experience/

The internship report is defended before a committee appointed by the program director. During the internship assessment, the student presents the ДНЕВНИК-ОТЧЕТ / REPORT document and answers questions from committee members.

Based on the results of the report defense, the internship committee prepares a "Commission's Conclusion on the Results of the Internship Defense" and records it in the corresponding section of the ДНЕВНИК-ОТЧЕТ / REPORT document; the final grade is entered into the grade sheet.

11. EDUCATIONAL AND METHODOLOGICAL RECOMMENDATIONS FOR TEACHERS

The first stage of practice (introduction)

The Head of practical training will notify students in advance of the actual meeting place on the first day of practical training.

Introduction. Safety instructions. Determination of methods for conducting internship, goals and objectives of internship, reporting forms.

Distribution of students to departments together with the person responsible for practical training from the medical organization.

Clarification and coordination of the practical assignment, taking into account the specific activities of a particular department of a medical organization.

During the internship, each student completes a daily the ДНЕВНИК-ОТЧЕТ / REPORT document using the prescribed format.

The form is provided to students in advance in the form of a *.doc file for completion on paper, or students are provided with access to an information system that allows them to maintain the ДНЕВНИК-ОТЧЕТ / REPORT document in electronic form.

The supervisor's notes in the appropriate columns of the diary/report will confirm that the student actually attended the internship that day, mastered certain skills, became familiar with the work of certain departments, etc.

A supervisor is the employee directly supervising the internship. This may be different employees on different days. The Head of practical training and the person responsible for practical training at the medical organization, may also act as supervisor for specific sections.

The ongoing assessment is conducted through the following methods: monitoring students' completion of relevant sections in the ДНЕВНИК-ОТЧЕТ / REPORT document (including daily report notes and report sections), verifying compliance with safety regulations, internal work procedures, and sanitary standards, conducting interviews, and evaluating students' demonstration of acquired skills. The Head of practical training may personally monitor the student's progress at any time during practice hours.

The second stage of practice is the main one.

Direct implementation by the student of activities to acquire skills and master practical abilities provided for by the internship program.

During the main stage of practical training, rotation of students across departments should be provided so that each student acquires the necessary skills and abilities.

Weekly case reviews focusing on differential diagnosis and treatment strategies are available. Interactive business simulations on emergency situations are also available.

The form of ongoing monitoring for the main stage of practice is an interview and demonstration of acquired skills, monitoring of students' completion of the relevant sections in the ДНЕВНИК-ОТЧЕТ / REPORT document (diary entries, writing of the section of the practice report).

The teacher supervises the students' work in the departments, operating room, manipulation room, work with the patient together with the department staff, interpretation of data from additional

research methods, and filling out medical documentation. Development of professional competencies: maintaining medical records, providing emergency care, and carrying out preventive measures

The third stage of practice is the final one.

On the penultimate day of practice, the student must complete the diary (obtain all necessary signatures) and write a report in the appropriate section of the ДНЕВНИК-ОТЧЕТ / REPORT document.

The report is based on information about the specific production work performed by the student during the internship (practical activity in a medical organization).

Completing a clinical internship report begins with a description of the internship site and the work schedule at the hospital or clinic. The clinical internship report should detail everything the student did, participated in, and observed, day by day, providing a clear understanding of the student's level of independence in completing a given task.

Create a diary with an analysis of your work. Prepare a presentation of a complex clinical case (diagnosis, treatment, results). Complete a final assessment in the form of an interview on the competencies mastered.

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Students' internship helps them develop communication skills with patients, taking into account ethics, deontology, and psychological characteristics.

Independent work helps develop skills in working with patients, working with literature, analytical thinking, documentation skills, accuracy, and discipline.

Working with academic literature is considered a form of academic work and is completed within the hours allotted for its study. Each student is provided with access to the university's electronic library collections.

The recommendations are aimed at systematically developing professional competencies through a combination of theoretical knowledge, practical skills, and compliance with regulatory requirements..

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