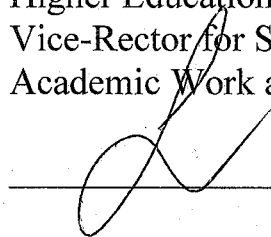


National Pirogov Memorial Medical University, Vinnytsya
Department of Propaedeutics of Internal Medicine


APPROVE

Higher Educational Institution
Vice-Rector for Scientific and
Academic Work and International Links


Inna ANDRUSHKO

AGREED

Head of the Department of
Propaedeutics of Internal Medicine,
professor

 Nataliia PENTIUK
« 30 » 08 20 24 year

SYLLABUS OF ACADEMIC DISCIPLINE CC 52
NURSING PRACTICE

Speciality	222 Medicine
Educational level	The second (master's) level
Educational programme	EPP «Medicine», 2022
Academic year	2024-2025
Department	Propaedeutics of Internal Medicine
Contact information	prop.intmed@vnmue.edu.ua 96, Khmelnytske hw, 21029, Vinnytsia, Ukraine (CNCE "Vinnytsia City Clinical Hospital #1) +38 067 622 23 07
Syllabus compiler	Professor Nataliia O. Pentiuk

1. Status and structure of the discipline:

Discipline status	Compulsory
Discipline code in EPP/ discipline place in EPP	CC 52, the discipline of professional training
Course/Semester	3 course / V-VI semester
The amount of discipline (the total number of hours/number of credits ECTS)	90 hours / 3 credits ECTS
Number modules	3
The structure of discipline	Practical classes – 90 hours.
Language of study	English
Form of study	Full-time: clinical bases, simulation center; in the case of “Air raid siren” practical classes are conducted in the shelter)

2. Description of the discipline

Short annotation of the course, and relevance. The program of the academic discipline "Nursing practice" is intended for higher education institutions of the Ministry of Health of Ukraine by the requirements of the credit transfer system of the organisation of the educational process ECTS, exemplary curriculum for training specialists of the second (master's) level of higher education in the field of knowledge 22 "Health care" speciality 222 "Medicine".

The discipline is a compulsory component of the educational and professional program "Medicine," a cycle of professional training of the Master of Medicine, designed for 3 credits, which education applicants learn during 5 and/or 6 semesters in the third year of study.

The main focus of the program is to obtain knowledge in the discipline "Nursing Practice," the study of which is necessary for the successful assimilation of the disciplines of professional training. The subject area of the program is the formation of practical skills in nursing. The program is focused on obtaining knowledge and forming skills and abilities for the observation and care of patients with therapeutic, surgical and pediatric profiles, basic diagnostic and therapeutic nursing manipulations, and providing care to patients with emergency conditions.

Types of educational knowledge according to the curriculum are a) practical classes, b) work in the simulation center, and c) work in the department of the health care institution.

The bases of practice are health care institutions and simulation classes, approved in the prescribed manner and those that can ensure the implementation of the practice program. During the practice, all activities of the applicant for higher education are controlled by the head of practice from the department and the base of practice. The results of passing practice are made out by filling out the relevant documentation: a diary of practice and a report on the implementation of program tasks.

Current student learning activities are monitored according to specific goals. The level of training of students is determined based on control of practical skills in the

methods of patient examination, basic nursing manipulations in care, treatment of the patient and the providing of emergency care, and solving clinically-oriented tasks.

The final control of mastering the discipline is carried out after completion as a differentiated credit according to the curriculum for the speciality 222 "Medicine".

Prerequisites – disciplines containing knowledge, skills and abilities necessary for mastering the studied discipline.

According to the curriculum, the study of the discipline "nursing practice" is carried out in the V-VI semesters, when the student has acquired relevant knowledge in the basic disciplines:

- medical biology (basics of medical genetics, manifestations of the basic laws of inheritance, medical and biological bases of parasitology);

- medical and biological physics (the genesis of ECG; the physical basis of the X-ray usage in medicine; modern methods and means of X-ray diagnostics; use of radionuclides);

- human anatomy (organ-specific features of the mucous membrane structure of tubular organs; general patterns of the muscular membrane of the wall of tubular organs structure, topography, structure, functions of the gastrointestinal tract, structure of cartilage, joints, ligaments, laryngeal muscles; glottis: boundaries, formation, parts, trachea: and bronchi: topography, wall structure, lungs: topography, external structure, lungs: particles, broncho-pulmonary segments, lobes, their structure, lung X-ray, bronchial tree: branching, wall structure, functions, alveolar tree: branching, wall structure, acinus: definition, structure, functions, pleura: general characteristics, functions, pleural cavity, its sinuses, kidneys: structure on frontal autopsy, structural and functional unit of the kidney, its components, ways of excretion of urine (components of excretory pathways of the kidney, renal sinus (sinus), its bridge, X-ray anatomy of the kidney, heart: topography, position options, shape options, external structure, chambers, projection of the heart on the anterior wall of the chest; areas of auscultation of heart valves; systemic (larger) circulation; respiratory (lesser) circulation; vessels of the torso);

- physiology (structural and functional organization of the autonomic nervous system and its role in the regulation of visceral functions; volumes that are part of the VC and their determination using a spirometer; dynamic indicators of pulmonary ventilation, methods for their determination, the volumes that are included to the composition of VC and their definition by spirogram, the sequence and duration of periods and phases of the cardiac cycle, characteristics of S1, S2 (their origin, components, duration), mechanical manifestations of heart activity: heartbeat (its properties and features in children), pulse (its properties), electrocardiogram recording technique, types of ECG leads (standard, amplified, chest), genesis and parameters of ECG components, ECG analysis, factors that determine the magnitude of blood pressure, arterial and venous pulse, components, their origin, microcirculation and its role in the mechanism exchange of fluid and various substances between blood and tissues; types of digestion depending on the location of hydrolysis, hormonal regulation of the gastrointestinal tract, enzymes of gastric juice, the role of hydrochloric acid in the digestion of nutrients, gastric and intestinal phases of gastric juice secretion, the role of gastric mucus, types of gastric contractions, exocrine activity of the pancreas and the properties of pancreatic juice, phases of pancreatic juice secretion, regulation

of bile formation and secretion in duodenum, functional characteristics of secretory processes in the small intestine, cavity and membrane hydrolysis of nutrients in different parts of the small intestine, colon function, absorption in the gastrointestinal tract proteins, water, salts, carbohydrates, fats; the small and large intestine motility; the role of the kidneys in the processes of excretion, maintenance of homeostasis, mechanisms of urination);

- biological and bioorganic chemistry (properties of enzymes, regulation of enzymatic activity, cofactors and qualitative reactions to vitamins, general patterns of metabolism, metabolism of carbohydrates and fats, common pathways of amino acid catabolism, nucleotide metabolism, molecular biology and genetics, molecular peripheral endocrine glands, the effect of insulin and adrenaline on blood glucose, water- and fat-soluble vitamins, blood chemistry in normal and pathology, proteins of the acute phase of inflammation, pigment metabolism, liver detoxification function, hormonal regulation of water-mineral-metabolic properties, urine);

- histology and embryology (dependence of vascular wall structure on hemodynamic, arteriole-venular anastomosis, organ features of veins, the structure of heart wall, its membranes, conducting system of the heart, structure and functions of bone marrow, lymph nodes, features of the structure of mucous membrane of the different gastrointestinal tract, histophysiology of secretory, morpho-functional characteristics of the liver, gallbladder, pancreas, the structure of the alveoli, the cellular composition of its lining, the renal filtration barrier, cortex and juxtamedullary blood supply systems);

- microbiology, virology and immunology (main periods of infectious disease; carrier of the pathogen, its detection; forms of infection: acute, chronic, latent, persistent, recurrence, reinfection, superinfection; pneumonia streptococci: morphology, pathogenicity, pathogenesis, immunology pneumococcal infections, the microbiota of the human body, its role in normal physiological processes and pathology, the characteristics of diseases caused by opportunistic pathogens;

- pathophysiology (types and pathogenesis of allergic reactions, the definition of inflammation, local and general signs, main components of inflammation, mechanisms of development; dysfunction in hypoxia; types, mechanisms of development, effects on the body of hyper- and hypoglycaemia, types and pathogenesis of oedema; anaemia, definition, classification, heart failure, definition, types, indicators of hemodynamic, arterial hyper- and hypotension; types, aetiology, the pathogenesis of shock, collapse; types, aetiology, pathogenesis, pathological types of respiration and dyspnoea; types, causes, syndromes of hyper- and hypoacidity; jaundice, acholic syndrome, liver failure; types, causes, mechanisms of oliguria, polyuria, proteinuria, haematuria development, mechanisms of nephritic, nephrotic syndromes, renal failure, kidney hypo- and hyperfunction, pain, types, mechanisms of pain);

- pathomorphology (clinical and morphological forms of atherosclerosis, organ lesions in atherosclerosis, morphology of myocardial infarction, chronic ischemic disease, morphological changes in blood vessels, heart in hypertension, morphology of joint manifestations, morphological characteristics of bronchial diseases, lungs).

The purpose of the course and its significance for professional activities.

The purpose of studying the academic discipline "Nursing Practice" is the formation of the student's foundations of clinical thinking and the acquisition of

professional competencies in solving typical tasks of a nurse: the technology of patient care, including seriously ill patients, basic medical manipulations in examination and treatment, the providing of emergency care to patients in compliance with the principles of medical ethics and deontology.

Postrequisites – disciplines, the study of which requires knowledge, abilities and skills acquired after completing the study of this discipline.

The discipline “Nursing Practice” forms the basis for gaining skills in the following clinical disciplines – internal medicine, general practice (family medicine), medical psychology, infectious diseases, oncology, anaesthesiology and intensive care, which provides "vertical" integration with these disciplines and skills knowledge of the basic methods of examination of the patient in the process of further training and professional activities.

3. Learning outcomes.

The discipline provides the acquirement of *competencies* by students:

General (GC)

- GC 1. Ability to abstract thinking, analysis and synthesis.
- GC 2. The ability to learn and to be modernly trained.
- GC 3. Ability to apply knowledge in practical situations.
- GC 4. Knowledge and understanding of the subject area and understanding of professional activity.
- GC 5. Ability to adapt and act in a new situation.
- GC 6. Ability to make reasonable decisions.
- GC 7. Ability to work in a team.
- GC 8. Ability for interpersonal interactions.
- GC 9. Ability to communicate in a foreign language.
- GC 10. Ability to use information and communication technologies.
- GC 11. Ability to search, process and analyse information from various sources.
- GC 12. Certainty and persistence in defined tasks and responsibilities.
- GC 13. Awareness of equal opportunities and gender issues.
- GC 14. The ability to realize one's rights and responsibilities as a member of society, to be aware of the values of a civil (free democratic) society and the need for its sustainable development, the rule of law, the rights and freedoms of a person and a citizen in Ukraine
- GC 15. The ability to preserve and multiply moral, cultural, scientific values and achievements of society based on understanding the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, technology and technologies, to use various types and forms of motor activity for active recreation and leading a healthy lifestyle.

Professional competencies (PC)

- PC 1. Ability to collect medical information about the patient and to analyse clinical data.
- PC 2. Ability to determine the required list of laboratory and instrumental tests and to evaluate the results.

PC 3. Ability to establish a preliminary diagnosis of the disease.

PC 6. Ability to perform medical manipulations.

PC 7. Ability to diagnose emergencies.

PC 8. Ability to determine the management and provide care in emergencies.

PC 10. Ability to perform medical manipulations.

PC 11. Ability to solve medical problems in new or unfamiliar environments in the presence of incomplete or limited information, taking into account aspects of social and ethical responsibility.

PC 13. Ability to carry out sanitary hygienic and preventive measures.

PC 16. Ability to maintain medical documentation, including electronic forms.

PC 17. The ability to assess the impact of the environment, socio-economic and biological determinants on the state of health of an individual, family, or population.

PC 21. To convey one's knowledge, conclusions and arguments on health care problems and related issues to specialists and non-specialists, in particular to people who are studying unambiguously.

PC 24. To comply with ethical principles in working with patients.

PC 25. To follow professional and academic integrity, to bear responsibility for the reliability of the obtained scientific results.

Integrative final program learning outcomes (PLO), forming of which studying of academic discipline contributes to:

PLO 1. To have a relevant knowledge of the structure of professional activity. To be able to carry out professional activities that require updating and integration of knowledge. To be responsible for professional development, the ability for further professional training with a high level of autonomy.

PLO 2. Understanding and knowledge of basic and clinical biomedical sciences, at a level sufficient for solving professional tasks in the field of health care.

PLO 3. Specialized conceptual knowledge, which includes scientific achievements in the field of health care and is the basis for conducting research, critical understanding of problems in the field of medicine and related interdisciplinary problems.

PLO 4. Highlight and identify leading clinical symptoms and syndromes (according to list 1: 4 - 8, 12, 13, 17, 19, 20, 24, 26 - 30, 32-34, 38, 39, 40, 41, 46, 49, 50, 51 - 53, 56-58, 59, 63, 64, 66, 67, 68, 69, 70, 73); according to standard methods, using previous data of the patient's history, data of the patient's examination, information about the person, his organs and systems, establish a preliminary diagnosis of the disease (according to list 2: 1, 3, 4, 7, 8, 41, 44, 47, 48, 52, 55, 56, 67, 69, 73, 75, 76, 77, 80, 82, 83, 85, 86, 88, 97, 98, 99, 101, 102, 105, 106, 112, 114, 119, 124, 126, 130, 145, 152, 155, 166, 174, 175).

PLO 5. Obtain information about complaints, anamnesis morbi and vitae, evaluate the psychomotor and physical development of the patient, the state of organs and systems of the body, based on the results of laboratory and instrumental tests, evaluate information about the diagnosis (according to list 4: 1 - 8, 10, 12, 13, 14 - 19, 26, 27, 28, 29, 30 - 34, 37, 44, 46, 48 - 50), taking into account the age of the patient.

PLO 7. Assign and analyse additional (mandatory and optional) examination methods (laboratory, functional and/or instrumental) (according to list 4: 1 - 8, 10, 12, 13, 14 - 19, 26, 27, 28, 29, 30 - 34, 37, 44, 46, 48 - 50), patients with diseases of

organs and body systems for differential diagnosis of diseases (according to list 2: 1, 3, 4, 7,8, 41, 44, 47, 48, 52, 55, 56, 67, 69, 73, 75, 76, 77, 80, 82, 83, 85, 86, 88, 97, 98, 99, 101,102, 105, 106, 112, 114, 119, 124, 126, 130, 145, 152, 155, 166, 174,175).

PLO 8. Determine the main clinical syndrome or what causes the severity of the victim's condition (according to list 3: 1, 2, 3, 4, 5, 9, 10, 12, 15, 16, 18, 19, 20, 21, 22, 25, 27, 28, 31, 34, 35, 36, 37, 38) by making a reasoned decision and assessing the person's condition under any circumstances (in the conditions of a health care facility, outside its borders), including in conditions of emergency and hostilities, in field conditions, in conditions of lack of information and limited time.

PLO 10. Determine the necessary mode of work, rest and nutrition based on the final clinical diagnosis, observing the relevant ethical and legal norms, by making an informed decision according to existing algorithms and standard schemes.

PLO 12. Assess the general condition of the newborn child by making an informed decision according to existing algorithms and standard schemes, observing appropriate ethical and legal standards.

PLO 13. Assess and monitor the development of the child, provide recommendations on feeding and nutrition depending on age, and organize preventive vaccinations according to the calendar.

PLO 14. Identify tactics and provide emergency medical care in emergencies (according to the list 3:1, 2, 3, 4, 5, 9, 10, 12, 15, 16, 18, 19, 20, 21, 22, 25, 27, 28, 31, 34, 35, 36, 37, 38) in a limited time setting according to existing clinical protocols and treatment standards.

PLO 17. Perform medical manipulations (according to list 5: 1, 2, 4, 5, 7, 8, 9, 10, 11, 12, 13, 14, 22, 23, 28, 31) in the conditions of a medical institution, at home or work based on a previous clinical diagnosis and/or parameters of the patient's condition by making a reasoned decision, observing the relevant ethical and legal norms.

PLO 19. Plan and implement a system of anti-epidemic and preventive measures for the emergence and spread of diseases among the population.

PLO 21. Search for the necessary information in the professional literature and databases of other sources, and analyse, evaluate and apply this information.

PLO 24. Organize the necessary level of individual safety (own and persons cared for) in case of typical dangerous situations in the individual field of activity.

PLO 25. It is unambiguous to convey one's knowledge, conclusions and arguments on healthcare problems and related issues to specialists and non-specialists.

PLO 27. Communicate freely in the state language and English, both orally and in writing to discuss professional activities, research and projects.

Learning outcomes for the discipline:

As a result of studying the discipline, students will:

Know about:

- the basic principles of the nurse's professional activity, the basic principles of medical ethics and deontology in patient care;
- the basic requirements for the organization of the work of a nurse of hospitals of therapeutic, surgical, and pediatric profiles;
- the basic requirements and stages of disinfection, pre-sterilization cleaning and sterilization of reusable tools;

- the basic rules for preparing the patient for laboratory and instrumental tests, including features of their performance in children of different ages;
- the technology of patient care therapeutic, surgical, and pediatric profile;
- the technology of performing basic nursing diagnostic and therapeutic manipulations;
- the technology of subcutaneous, intramuscular, and intravenous injections, including features of their performance in children of all ages;
- the principles of care for patients with different therapeutic and surgical pathologies, including features of care for children of different ages
- the principles of first aid in case of development of basic emergency conditions, in case of injuries

Be able to:

- demonstrate the moral and deontological principles of a medical specialist and the principles of professional subordination;
- disinfect, pre-sterilize and sterilize reusable instruments;
- demonstrate the skills of preparing the patient for laboratory and instrumental tests, including the features of their performance in children of different ages;
- demonstrate the technology of performing basic nursing diagnostic and therapeutic manipulations
- demonstrate the technique of performing subcutaneous, intramuscular, and intravenous injections, including the features of their performance in children of different ages;
- provide care for patients with different therapeutic and surgical pathologies, including care for children of different ages
- provide emergency pre-hospital care for major medical emergencies and injuries;
- maintain appropriate medical documentation.

4. Content and logistics of the discipline

MODULE №1: «Basic duties and professional actions of the nurse of the therapeutic department»	30 hours / 1 credit ECTS	Practical classes № 1-15
MODULE №2: «Basic duties and professional actions of the nurse of the surgical department»	30 hours / 1 credit ECTS	Practical classes № 16-30
MODULE №3: «Basic duties and professional actions of the nurse of the paediatric department»	30 hours / 1 credit ECTS	Practical classes № 31-45

Module 1. "Basic duties and professional actions of the nurse of the therapeutic department"

1. Professional duties of the nurse of the therapeutic department. Ethics, deontology, professional subordination. Maintenance of medical records.
2. Assessment of vital signs of the patient. Investigation of breathing, arterial pulse, blood pressure, and body temperature. Registration of vital signs in medical records.
3. The technology of performing the main functional investigations: electrocardiography, and spirometry.
4. The technology of performing diagnostic manipulations: pulse oximetry, blood glucose measurement, performing rapid tests.
5. Technology of biological material sampling for tests. Swabs from the throat and nose on bacterioscopic, bacteriological and cytomorphological tests. Blood sampling for chemistry, haematology, and serology tests.
6. Bladder catheterization technology with a soft catheter. Gastric lavage technology. Collection of wash water for analysis.
7. Enteral nutrition of patients. The technology of orogastric and nasogastric tube installation.
8. Inhalation administration of drugs using a metered dry powder inhaler, metered aerosol inhaler, spacer, or nebulizer.
9. Hospital and outpatient oxygen therapy technology.
10. Parenteral administration of drugs. Intradermal and subcutaneous injections.
11. Parenteral administration of drugs. Intramuscular injections.
12. Parenteral administration of drugs. Intravenous injections. Peripheral venous catheter placement technique. Calculation of the dose of the soluble form of the drug for injection.
13. Cardiopulmonary resuscitation. Rescue breathing and chest compressions.
14. Death of a patient in hospital. Diagnosis of clinical and biological death. Method of dealing with a deceased person under applicable law.
15. The final class.

Module №2: «Basic duties and professional actions of the nurse of the surgical department»

1. Desmurgia. Application of soft bandages.
2. Desmurgia. Application of hardening bandages and hard bandages.
3. Technology for determining blood groups, Rh factor, individual and Rh compatibility.
4. Hand and surgical field treatment.
5. Methods of sterilization of instruments, dressing material, and operating linen. Methods of installation in the surgical box.
6. Assessment of the severity of the patient with acute bleeding.
7. A technique for temporary control of haemorrhage.
8. Methods for performing blood transfusion.
9. Methods and techniques of local anaesthesia and endotracheal anaesthesia.
10. Method of cardio-pulmonary resuscitation (rescue breathing, chest compressions).
11. First aid to victims with closed soft tissue injuries of the chest, and skull and technology of performing primary surgical treatment of the wound.

12. Assessment of clinical signs of bone fractures and dislocations. Evaluation of radiological signs of bone fractures and dislocations. First aid to the victim for bone fractures and dislocations. Application of transport immobilization for bone fractures and dislocations.
13. Burns. Assessment of the severity of the condition of the victim with burns. First aid to victims with burns.
14. Frostbite. Assessment of the severity of the condition of the victim with frostbite. First aid to victims with frostbite.
15. The final lesson.

Module №3. «Basic duties and professional actions of the nurse of the paediatric department»

1. Organization of work and documentation of the post-nurse of the pediatric department.
2. Organization of work and documentation of the nurse in the manipulation room.
3. Organization of work, functions and documentation of the admission department of the pediatric hospital.
4. Anthropometric measurements in children of different ages.
5. Diagnostic procedures: taking swabs from the throat and nose of sick children.
6. Diagnostic procedures: taking faeces and urine for different types of tests in children.
7. Vital signs assessment in a sick child: an examination of pulse, and blood pressure.
8. Thermometry, rules for measuring body temperature, types of thermometers. Filling the temperature sheet.
9. Sanitary and hygienic treatment of patients with scabies and pediculosis.
10. Accounting and rules for the storage of drugs. The technique of administering medicines to children through the mouth, nose, and ears.
11. The technique of administering drugs by the rectal route. Features of the use of inhaled drug administration.
12. The technique of drug administration. Intradermal, subcutaneous, and intramuscular injections.
13. The technique of administering medicines to children intravenously.
14. Technique of feeding children from a bottle with artificial feeding. Control of the correct application of the child to the breast for breastfeeding.
15. Final lesson1.

5. Independent work.

Not provided by the program.

6. Individual tasks.

Working with a virtual patient: processing online modules from the initial level of clinical reasoning formation using the platform (Moodle platform) DID-ACT: <https://did-act.instruct.eu/course/view.php?id=8>

1. What is Clinical Reasoning – An introduction
2. Health Profession Roles in Clinical Reasoning
3. Person-centered Approach to Clinical Reasoning
4. Dual Process Theory

5. Illness Scripts
6. Using the Outcome Present State Test Model
7. Collect and Prioritize Key Clinical Findings/Problems

Instructions for performing the task:

- Go to the website by link
- Register indicating your name in Latin
- Use the e-mail of the student's corporate account s000XXX@vnmue.edu.ua
- In the "INSTITUTION" field, select "OTHER"
- In the "ROLE" field, select "STUDENT"
- After registration, go to the platform to read the instructions for using the platform.
- Select NOVICE LEVEL, from which to pass the following topics: 1. What is Clinical Reasoning – An introduction; 2. Health Profession Roles in Clinical Reasoning; 3. Person-centered Approach to Clinical Reasoning; 4. Dual Process Theory; 5. Illness Scripts; 6. Using the Outcome Present State Test Model; 7. Collect and Prioritize Key Clinical Findings/Problems
- Get acquainted with the material, perform tasks and tests, get the appropriate number of points for each topic and print certificates of the task (GRADES section in the Login window).

For independent online passing modules, the student receives from 4 to 12 additional points in the discipline.

In practical classes, students under the supervision of a teacher or supervisor on a clinical practice basis work out practical skills in the conditions of departments of medical institutions, at the bedside and in simulation classes using training mannequins/phantoms/simulators, formulate conclusions, solve clinically-oriented situational tasks.

Thematic plans of practical classes, instructions and video presentations of basic nursing practical skills are published on the website of the department. Route of obtaining materials: Department of Propaedeutics of Internal Medicine/Student/Full-time form of study/Medicine/3 course/Teaching materials/Nursing practice or by reference <https://www.vnmue.edu.ua/en/department/department/49>. Access to materials is carried out from the corporate account of the student s000XXX@vnmue.edu.ua.

7. Forms and methods of monitoring academic performance

Current control in practical classes	Demonstration of mastering a practical skill: understanding the purpose, indications and contraindications of manipulation, independently and correctly performing and evaluating the result of performing manipulation
Final control of the discipline – differential credit	Performance of practical skills, providing of a report on practice and other documentation prepared by the requirements.

Learning success diagnostic tools	Theoretical questions, clinically oriented situational tasks, laboratory and instrumental test results, practical skills demonstration
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Assessment criteria

Knowledge assessment is carried out by the Regulations of the Academic process at National Pirogov Memorial Medical University (link <https://www.vnmu.edu.ua/general-regulations>)

Continuous assessment	On a four-point system of traditional assessments: 5 «excellent», 4 «good», 3 «satisfactory», 2 «unsatisfactory»
Pass–fail credit	On a 200-point scale (the arithmetic average grade for the semester is converted into points) Credited: 122 to 200 points Not credited: less than 122 points (See Grading Scale)
Final control of the discipline	The sum of points for pre-examination testing (12-20 points) and oral questioning (38-60 points) Final exam grade: 71-80 points – "excellent" 61-70 points – "good" 50-60 points – "satisfactory" Less than 50 points – "unsatisfactory" / did not pass
Discipline assessments:	Current academic assessment – from 72 to 120 points (conversion of the average traditional assessment of practical class on a 120-point scale): 60% of the grade for the discipline Final control – from 50 to 80 points: 40% of the grade for the discipline Individual work – from 2 to 12 points From 123 to 200 points in total.
Learning success diagnostic tools	Practical skills demonstration, defending the report of practice

Discipline Score Scale: National and ECTS

The sum of grades for all types of educational activities	Score ECTS	Score on a national scale	
		For exam, course project (work), practice	for credit test
180-200	A	excellent	credited
170-179,99	B	good	
160-169,99	C		
141-159,99	D	satisfactory	
122-140,99	E		

0-121,99	FX	unsatisfactory with the possibility of reassembly	is not credited with the possibility of reassembling
0-121,99	F	unsatisfactory with a mandatory reexamination of discipline	is not credited with a mandatory reexamination of discipline

Assessment criteria for performing practical skills during practice

Score «**excellent**»

Score «**good**»

Score «**satisfactory**»

Score «**unsatisfactory**».

Grade of "**excellent**": the student completely gains practical skills, – understands the purpose, indications and contraindications of manipulation, independently, correctly performs and evaluates the result of the execution.

Grade of "**good**": the student partially gains a practical skill – understands the purpose, indications and contraindications of the manipulation, independently performs the manipulation and evaluates the result of its performance, while allowing no more than 20% of mistakes.

Grade of "**satisfactory**": the student has only the mandatory minimum of the practical task, – is familiar with the purpose, indications, contraindications, and technique of performing, performs manipulation and evaluates the result of its performance while allowing no more than 40% of mistakes.

Grade of "**unsatisfactory**": the student does not gain a practical skill.

Assessment of the student's independent work

The work-out of online modules on the formation of clinical reasoning using the DID-ACT platform (Moodle platform), and the successful completion of tasks and tests, which is confirmed by the relevant certificates, allow you to additionally get from 4 to 12 points.

Assessment criteria of knowledge and skills on the final control (differential credit)

Score «**excellent**»

Score «**good**»

Score «**satisfactory**»

Score «**unsatisfactory**».

Grade of "**excellent**": the student knows the steps and sequence of performance of all practical skills, demonstrates their correct performance, correctly formulates generalizations and conclusions, and provides a report on practice and other documentation issued by the requirements.

Grade of "**good**": the student allows inaccuracies in the performance of practical skills, but can independently identify mistakes made, can demonstrate the performance of practical skills in general, and provides a report on practice and other documentation by the requirements.

Grade of "**satisfactory**": the student has difficulty in performing practical skills, cannot demonstrate a complete and correct sequence of practical skills, cannot fully interpret the results of the performance, and provides a report on practice and other documentation by the requirements.

Grade of "**unsatisfactory**": the student cannot demonstrate performing the practical skills, and does not provide a report on practice and other documentation by the requirements.

8. Policy of discipline/course

The student has the right to receive high-quality educational services, access to modern scientific and educational information, qualified tutoring during the study of discipline and mastering practical skills. The policy of the department during the providing of educational services is student-centred, based on normative documents of the Ministry of Education and the Ministry of Health of Ukraine, the Statute of the University and the Procedure for the Providing of Educational Services regulated by the main principles of the organization of the educational process in National Pirogov Memorial Medical University and the principles of academic integrity (<https://www.vnmu.edu.ua/general-regulations>).

Adherence to the rules of VNMU, and safety techniques in practical classes.

Instruction on safety techniques and behaviour during the "Air raid siren" alarm is given by the teacher at the first practical class and the beginning of each class.

Requirements for preparation for practical classes.

The student should come on time and be prepared theoretically for a practical class. A student who is more than 10 minutes late is not allowed to attend the practical class and must rework it in the prescribed manner. A student should come to class on time, without delay. A student who is more than 10 minutes late is not allowed to the practical class and must work it in the prescribed manner. In practical classes, the student must be dressed in a work uniform (white coat, surgical cap, change shoes, face mask) and have a stethoscope. Students who do not have a work uniform are not allowed to attend practical classes. The student must follow safety rules in practical classrooms, shelters, and departments of the clinic. When discussing theoretical issues and talking with clinic personnel, students should demonstrate tolerance, courtesy and respect for their colleagues and the teacher.

Use of mobile phones and other electronic devices.

The use of mobile phones and other electronic devices during the lesson is allowed only in case of the need for a watch (calculation of respiratory rate, pulse rate or heart rate) and a calculator (ECG analysis).

Academic integrity. While studying the discipline, the student must be guided by the Code of academic integrity and corporate ethics of National Pirogov Memorial Medical University, Vinnytsya (<https://www.vnmu.edu.ua/general-information/code-of-academic-integrity-and-corporate-ethics-of-national-pirogov-memorial-medical-university--vinnytsya>). If the norms of academic integrity are violated during the current and final control or when writing a case history, the student gets "unsatisfactory" grade and must rework it out to his teacher in the prescribed manner within two weeks.

Missed classes. Missed classes should be reworked by the procedure established in the Regulations of the Academic process at National Pirogov Memorial Medical University (link <https://www.vnmu.edu.ua/general-information/regulations-on-academic-process-at-national-pirogov-memorial-medical-university--vinnytsya>) at the time determined by the schedule of reworks (published on the website of the department <https://www.vnmu.edu.ua/en/department/department/49>) to the teacher on duty or the teacher conducting the class. To rework the missed class, the student must orally answer the questions regarding the missed class topic.

The procedure for admission to the final discipline control is given in the Regulations of the Academic process at National Pirogov Memorial Medical University (link <https://www.vnmu.edu.ua/general-information/regulations-on-academic-process-at-national-pirogov-memorial-medical-university--vinnytsya>). Students who do not have missed practical classes and received an average traditional grade of at least "3" are allowed to final control.

Additional points. Individual points from the discipline (from 4 to 12) that students can receive for individual work, the scope of which is published on the website of the department in the educational and methodical materials of the discipline, the number of points is determined by the results of the individual work according to the Regulations of the Academic process at National Pirogov Memorial Medical University (link <https://www.vnmu.edu.ua/general-information/regulations-on-academic-process-at-national-pirogov-memorial-medical-university--vinnytsya>).

Conflict resolution. In case of misunderstandings and claims against the teacher due to the quality of educational services, knowledge assessment and other conflict situations, the student must first notify the teacher of his/her claims. If the conflict issue is not resolved, the student has the right to submit an appeal to the head of the department by the Regulation on consideration of Appeals by applicants for higher education at National Pirogov Memorial Medical University ([https://www.vnmu.edu.ua/ General information/Basic documents](https://www.vnmu.edu.ua/General%20information/Basic%20documents)).

Politics in conditions of mixed learning. The procedure for mixed education is regulated by the Regulations on introducing remote study elements at National Pirogov Memorial Medical University, Vinnytsya (<https://www.vnmu.edu.ua/general-information/regulations-on-introducing-remote-study-elements-at-national-pirogov-memorial-medical-university--vinnytsya>). The main training platforms for conducting practical classes are Microsoft Team, Google Meet. The procedure for conducting practical classes, reworks and consultations during remote study is published on the website of the department (<https://www.vnmu.edu.ua/en/department/department/49#>).

Feedback from teachers is via messengers (Viber, Telegram, WhatsApp) or e-mail (of the teacher's choice) during working hours.

9. Educational resources.

Educational and methodological support of the discipline is published on the website of the department (<https://www.vnmu.edu.ua/en/department/department/49#>).

Basic literature

1. Kasevych, N.M. (2018). Fundamentals of Nursing in Modules: Training (3rd ed. Corrected). Kyiv: Medicine.
2. Recommendations of the European Resuscitation Council 2021: Basic resuscitation measures.
3. General surgery: textbook/S. D. Khimich, M. D. Zheliba, I. G. Gerich et al.: As edited by professors S. D. Khimich, M. D. Zheliba, - K.: VSV "Medicine," 2018. - 608 p.
4. General surgery: textbook for students of higher educational institutions. As edited by Y. S. Bereznitsky et al. Vinnitsa: New Book, 2018.-344p.
5. Workshop on nursing in surgery: workshop/R.O. Sabadashin, A.V. Markovich, V.O. Ryzhkovsky. Vinnitsa: New Book, 2017. -360 p.
6. Surgery. General surgery with the main types of surgical pathology. Treatment of the patient in a surgical hospital. Sabadishin R.O., Markovich O.V., Ryzhkov V.O., Chizhishin B.Z. Vinnytsia. New book. 2018. - 784 p.
7. Surgery. T1. Textbook on general surgery. As edited by Y. S. Bereznitsky et al. Dnipropetrovsk: RVA "Dnipro - VAL." 2006. - 443 p.
8. Surgical diseases: textbook/Y. S. Bereznitsky et al., Edited by P. D. Fomin.-K.: VSV "Medicine," 2016.- 408p.
9. Butyrsky A. General surgery. - Vinnytsia.: New Book. 2019. - 328 p.
10. General surgery. Edited by Professor S.D. Khimich, professor M.D. Zheliba, Kyiv AUS Medicine Publishing. 2019. – 534
11. Katilov O.V., Dmitriev D.V., Dmitrieva K.Yu., Makarov S.Yu. Clinical examination of the child, 2017. - 520 p.
12. Pediatric physical examination: textbook for students of higher educational institutions/O.V.Katilov, D.V. Dmytriiev, K.Yu. Dmytriieva, S.Yu. Makarov – Vinnytsia Nova Knyha, 2018.-504 p.
13. Kapitan T.V. Propedeutics of childhood diseases with child care. Vinnytsia: Vinnytsia newspaper, 2021. - 832 s.
14. Propaedeutic pediatrics. Textbook for students of higher naves. ref ./Edited by acad. NAMS of Ukraine, prof. V.G. Maydannika.- Vinnitsa: New book, 2012.- 880 p.
15. Наказ МОЗ України від 20.03.2008 №149 «Про затвердження Клінічного протоколу медичного догляду за здоровою дитиною віком до 3 років». – К.: 2008. – 82 с.
16. On Approval of Regulatory Acts on Protection from HIV Infection in the Performance of Professional Duties. Order of the Ministry of Health of Ukraine No. 955 of November 20, 2013.
17. On Approval of the State Sanitary and Anti-Epidemic Rules and Regulations on Medical Waste Management. Order of the Ministry of Health of Ukraine No. 325 of June 08, 2015.
18. On Amendments to the Primary Accounting Forms and Instructions for Their Completion. Order of the Ministry of Health of Ukraine No. 29 of January 21, 2016.
19. On approval of anti-epidemic measures for the management of medical waste generated as a result of the mass vaccination campaign against COVID-19. Resolution of the Ministry of Health No. 14 of February 10, 2022.
20. On Approval of the State Sanitary Norms and Rules "Sanitary and Anti-Epidemic Requirements for Newly Built, Restored and Reconstructed Healthcare

- Facilities" and Amendments to Certain Regulatory Acts of the Ministry of Health. Order of the Ministry of Health No. 354 of February 21, 2023.
21. On approval of sanitary and anti-epidemic rules and regulations for the use of ultraviolet bactericidal radiation for air disinfection and surface disinfection in healthcare facilities and institutions/social services/social protection facilities. Order of the Ministry of Health of Ukraine No. 882 of 06.05.2021.
 22. On Approval of Measures and Means to Prevent Infection in Patient Care. Order of the Ministry of Health of Ukraine No. 1777 dated 03.08.2020.
 23. On the organization and implementation of measures to combat pediculosis. Order of the Ministry of Health №38 of 28.03.1994.
 24. Organization of medical care for patients with coronavirus disease (COVID-19). Order of the Ministry of Health of Ukraine No. 722 of 28.03.2020.
 25. On approval of the State Sanitary Norms and Rules "Disinfection, pre-sterilization cleaning and sterilization of medical devices in healthcare facilities. Order of the Ministry of Health of Ukraine No. 552 of August 11, 2014.
 26. On Approval of the Instruction on Collection, Sorting, Transportation, Storage, Disinfection and Laundry in Healthcare Facilities. Order of the Ministry of Health of Ukraine No. 293 of April 30, 2014.
 27. On Approval of the Rules for Utilization and Destruction of Medicinal Products. Order of the Ministry of Health of Ukraine No. 242 of April 24, 2015.
 28. On Approval of the State Sanitary Norms and Rules Sanitary and Anti-Epidemic Requirements for Healthcare Facilities Providing Primary Medical (Healthcare) Assistance. Order of the Ministry of Health of Ukraine No. 259 of 02.04.2013.

Additional Literature

1. Rehabilitation, prevention and treatment of complications and discharge planning in ischemic stroke. Adapted evidence-based clinical practice guideline (2012).
2. Pain management. Adapted evidence-based clinical practice guideline (2012).
3. Modern principles of diagnosis and treatment of patients with acute ischemic stroke and TIA. Adapted evidence-based clinical practice guideline (2012).
4. Rehabilitation, prevention and treatment of complications and discharge planning in ischemic stroke. An adapted evidence-based clinical practice guideline (2012).
5. Chronic obstructive pulmonary disease. Adapted evidence-based clinical practice guideline (2019)
6. Bronchial asthma. Adapted evidence-based clinical practice guideline (2021).
7. Kovaleva, O.M. (ed.) (2015). Nursing care (practice): a textbook (universities of III-IV years of study) (3rd ed. revised). Kyiv: Medicine.
8. Kovalchuk, L.M., Kononov, O.V. (eds) (2009). Patient care and medical manipulation techniques: a textbook. Kyiv: Medicine.
9. Mostovoy, Y.M., Demchuk, A.V., Konstantinovich, T.V., Danilevich, T.D., & Poberezhets, V.L. (2016). Guidelines for the clinical examination of a therapeutic patient and writing a medical history: A textbook for medical students studying in Ukrainian, English or Russian. (2nd ed.). Vinnytsia: Center of DZK.
10. Kurdyumova N.O. Paediatrics: practical skills: training. - Method. poset ./[N.O. Kurdyumova, T.G. Polishchuk]. - 2nd edition, 2023 - 328 p.

11. Fundamentals of Pediatrics by Nelson Volume 1/[Karen J. Mardante, Robert M. Kligman]; 8th English edition, 2019
12. Fundamentals of Pediatrics by Nelson Volume 2/[Karen J. Mardante, Robert M. Kligman]; 8th English edition, 2019

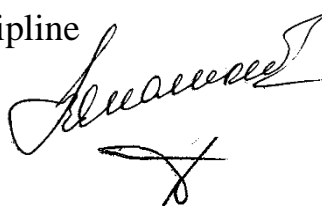
Electronic resources

1. Website of the University: <http://vnmdu.edu.ua>
2. Library of the University: <http://library.vnmdu.edu.ua>
3. World Health Organisation <http://www.who.int/en/>
4. Testing Center <https://www.testcentr.org.ua/uk/>
5. Ministry of Health of Ukraine <https://moz.gov.ua/>
6. Public Healthcare of Ukraine <https://phc.org.ua/kontrol-zakhvoryuvan>
7. Website of the department:
<https://www.vnmdu.edu.ua/en/department/department/49#>
8. Dr. Najeeb Lectures
<https://www.youtube.com/channel/UCPHpx55tgrbm8FrYYCflAHw>
9. Osmosis <https://www.youtube.com/c/osmosis/>
10. MEDCRAM Medical Lectures explained clearly
<https://www.youtube.com/user/MEDCRAMvideos>
11. <https://pubmed.ncbi.nlm.nih.gov/>
12. Geeky medicine OSCE-guidelines <https://www.youtube.com/@geekymedics>
 - a. <http://www.meddean.luc.edu/lumen/meded/medicine/pulmonar/pd/contents.htm>
 - b. <http://meded.ucsd.edu/clinicalmed/>
 - c. <http://meded.ucsd.edu/clinicalmed/>
 - d. <http://www.meddean.luc.edu/lumen/meded/medicine/pulmonar/pd/contents.htm>
 - e. <HTTP://WWW.CARDIOLOGYSITE.COM/>
 - f. <http://www.meddean.luc.edu/lumen/meded/medicine/pulmonar/pd/contents.htm>
 - g. <http://www.blaufuss.org/>
 - h. <HTTP://MEDED.UCSD.EDU/CLINICALMED/>
13. <http://www.meddean.luc.edu/lumen/meded/medicine/pulmonar/pd/contents.htm>
14. <http://gastroresource.com/gitextbook/en/default.htm>

The timetable and distribution of groups among the teachers are published on the website of the department <https://www.vnmdu.edu.ua/en/department/department/49#>

The syllabus of the discipline “NURSING PRACTICE” was discussed and approved at the meeting of the Department of Propaedeutics of Internal Medicine (record #__1__ dated “__26__” __August__ 2024__).

Responsible for the academic discipline
Associated Professor of HEI



Halyna TOMASHKEVYCH

Head of the Department of
Propaedeutic of Internal Medicine



Nataliia PENTIUK