

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

SUMY STATE UNIVERSITY

Academic and Research Medical Institute

Кафедра педіатрії

NURSING PRACTICE: PEDIATRIC PRACTICE

Higher education level	The Second
Major: study programme	222 Medicine: Medicine

Approved by Quality Council HHMI

Chairman of the Quality Council HHMI

Petrashenko Viktoriia Oleksandrivna

DATA ON APPROVAL

Author

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Considered and approved at the meeting of the work group of Study programme Медицина	Head of the work group (Head of the Study programme) Prystupa Liudmyla Nykodymivna
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Syllabus

1. General information

Full name	Nursing practice: pediatric practice
Full official name of a higher education institution	Sumy State University
Full name of a structural unit	Academic and Research Medical Institute. Кафедра педіатрії
Author(s)	Manko Yuliia Anatoliivna
Cycle/higher education level	The Second Level Of Higher Education, National Qualifications Framework Of Ukraine – The 7th Level, QF-LLL – The 7th Level, FQ-EHEA – The Second Cycle
Duration	one semester
Workload	1 ECTS, 30 hours. For full-time course 10 hours are working hours with the lecturer (10 hours of seminars), 20 hours of the individual study.
Language(s)	English

2. Place in the study programme

Relation to curriculum	Compulsory course available for study programme "Medicine"
Prerequisites	English, Human Anatomy, Histology, Cytology and Embryology, Latin and Medical Terminology, Medical Biology, Medical and Biological Physics, Medical Chemistry, Biological and Bioorganic Chemistry, Physiology, Microbiology, Virology and Immunology, Medical Informatics, Integrated Course in Fundamental Disciplines , patient care
Additional requirements	There are no specific requirements
Restrictions	There are no specific restrictions

3. Aims

Mastering the basic techniques of the professional activity of a nurse based on knowledge of fundamental disciplines in compliance with the principles of medical ethics and deontology.

4. Contents

MODULE I. MAIN DUTIES AND PROFESSIONAL ACTIONS OF A PEDIATRIC DEPARTMENT NURSE. Topic 1 Organization of the work of a nurse. Medical documentation, procedure for its management. Topic 2 The work of the manipulation nurse of the pediatric department. Topic 3 Ensuring the treatment and diagnostic process in a pediatric hospital. Topic 4 Ensuring the treatment and diagnostic process in pediatric hospital. Topic 5 Final modular control

5. Intended learning outcomes

After successful completion of the internship, a student will be able to:

LO1	Determine the necessary list of laboratory and instrumental studies of children and evaluation of their results. Be able to prepare a sick child and equipment for various types of examinations. Master the skills of the technique of taking biomaterial (urine, feces, material from the upper respiratory tract) for research in children of different age groups.
LO2	Establish preliminary and clinical diagnosis of childhood diseases. To be able to conduct a survey of the child, its examination, palpation, percussion, auscultation and based on algorithms and standards.
LO3	Determine the nature of nutrition in the treatment of childhood diseases. To be able to ensure the regimen and nature of nutrition of a sick child determined by the doctor, the conditions of eating.
LO4	Determine the principles and nature of treatment of childhood diseases. Skills in the technique of performing injections, filling the system for intravenous infusions. Skills of inhalation administration of drugs, use of pocket and stationary inhalers. Master the technique of carrying out oxygen therapy in children, using a heating pad, ice pack.
LO5	To acquire skills in providing emergency medical care in pediatric practice. Be able to provide emergency help to a child in case of vomiting, constipation, acute urinary retention, hyperthermic and convulsive syndromes. Skills in the technique of indirect heart massage, artificial respiration, gastric lavage, bladder catheterization.
LO6	Be able to carry out medical and evacuation measures among the children's population. Skills of planning and carrying out sanitary and hygienic and preventive measures for infectious diseases. To master the technique of treating the hands of a nurse in the procedure room, the skills of disinfection, pre-sterilization cleaning of instruments.
LO7	Be able to assess the general condition of a newborn baby. To be able to carry out hygienic procedures, care for the umbilical cord, the toilet of a newborn depending on the gender of the child.
LO8	To be able to determine the main clinical syndrome. Skills of conducting a survey, clinical examination of a child of different age groups, depending on the severity of the patient's condition.
LO9	Perform medical manipulations in the scope of a pediatric ward nurse. Know the rules for storing, prescribing and accounting for medicinal products. Be able to cover the sterile table in the manipulation room. Master the technique and choose the route of administration of medicines according to the age and condition of the sick child.
LO10	Вміти організувати роботу згідно з санітарно-гігієнічним та лікувально-охоронним режимами основних підрозділів стаціонару дитячої лікарні.

6. Role in the achievement of programme learning outcomes

Programme learning outcomes:

For 222 Medicine:

PO1	Have thorough 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.
PO4	Identify and identify leading clinical symptoms and syndromes (according to list 1); according to standard methods, using preliminary data of the patient's history, data of the patient's examination, knowledge about the person, his organs and systems, establish a preliminary clinical diagnosis of the disease (according to list 2).
PO5	Collect complaints, anamnesis of life and diseases, assess 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 studies, evaluate information regarding the diagnosis (according to list 4), taking into account the age of the patient.
PO7	Assign and analyze additional (mandatory and optional) examination methods (laboratory, functional and/or instrumental) (according to list 4) of patients with diseases of organs and body systems for differential diagnosis of diseases (according to list 2).
PO8	Determine the main clinical syndrome or what causes the severity of the victim/injured's condition (according to list 3) 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.
PO12	To assess the general condition of a newborn child by making a reasoned decision according to existing algorithms and standard schemes, observing the relevant ethical and legal norms.
PO17	Perform medical manipulations (according to list 5) in the conditions of a medical institution, at home or at work based on a previous clinical diagnosis and/or indicators of the patient's condition by making a reasoned decision, observing the relevant ethical and legal norms.
PO19	Plan and implement a system of anti-epidemic and preventive measures regarding the occurrence and spread of diseases among the population.
PO20	Analyze the epidemiological situation and carry out measures for mass and individual, general and local prevention of infectious diseases.
PO24	To organize the necessary level of individual safety (own and the persons he cares for) in case of typical dangerous situations in the individual field of activity.

7. Soft Skills

SS1	Ability to learn and master modern knowledge.
SS2	Knowledge and understanding of the subject area and understanding of professional activity.
SS3	Ability to adapt and act in a new situation.

SS4	Ability to make informed decisions.
SS5	Determination and perseverance regarding the assigned tasks and assumed responsibilities.
SS6	The ability to preserve and multiply the moral, cultural, scientific values and achievements of society based on an understanding of 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 technology, to use different types and forms of motor activity for active recreation and leading a healthy lifestyle.
SS7	Ability to apply knowledge in practical situations.
SS8	Ability to work in a team.
SS9	Ability to interpersonal interaction.

8. Learning activities

LA1	Preparation for practical classes
LA2	Interpretation of laboratory examination methods (clinical analysis of blood, urine, biochemical blood analysis, etc.)
LA3	Analysis of clinical cases
LA4	Practical work with the patient in specialized departments of the hospital
LA5	Electronic learning in systems (the list is specified by the teacher, for example, Google Classroom, Zoom and in the YouTube channel format)
LA6	Working with textbooks and relevant information sources
LA7	Practicing practical skills in the simulation center
LA8	Performance of group practical task

9. Teaching methods

Provides learning through:

TM1	Case-based learning
TM2	Team Based Learning
TM3	Practical training
TM4	Self-study
TM5	Electronic learning

10. Methods and criteria for assessment

10.1. Assessment criteria

National scale	Rating scale
5 (Excellent)	$170 \leq RD \leq 200$

4 (Good)	$140 \leq RD < 169$
3 (Satisfactory)	$120 \leq RD < 139$
2 (Fail)	$0 \leq RD < 119$

10.2 Formative assessment

	Description	Deadline, weeks	Feedback
FA1 Discussion and mutual evaluation of completed practice tasks.	Interaction based on the comparison of the current level of success with previous indicators in order to improve the results of educational activities	During the entire period of studying the discipline	Adjustment of learning approaches taking into account assessment results. Control of performance of practical skills
FA2 Instructions of the teacher in the process of performing practical tasks	Determination of the level of acquired experience of educational activities in accordance with the set goals and reasons for inconsistency. Correction of the learning process.	During the entire period of studying the discipline	Forming an assessment based on the analysis of determined indicators of educational activity.
FA3 Students' independent performance of situational tasks in practical classes and their discussion	Determination of the level of acquired experience of educational activities in accordance with the set goals and reasons for inconsistency. Correction of the learning process.	During the entire period of studying the discipline	Formation of clinical thinking and independence
FA4 Practical skills test	Practicing practical skills on dummies and simulators.	During the entire period of studying the discipline	Successful performance of practical skills is an admission to take a differentiated assessment.
FA5 Survey and instructions of the teacher who manages the practice.	Determination of the level of acquired experience, the ability to learn and master modern knowledge.	During the entire period of studying the discipline	Teacher's oral comments

FA6 Review and evaluation of written assignments	Control of the level of theoretical training.	During the entire period of studying the discipline	Forming an assessment based on the analysis of the received information.
FA7 Discussions in focus groups	The method makes it possible to involve all participants in the process of discussion and justification of one's own opinion through multilateral communication, to develop the ability to conduct a professional discussion, to cultivate respect for colleagues and the ability to generate alternative ideas and proposals.	During the entire period of studying the discipline	Assessment of the student's ability to work in a team, the ability to justify their decisions, determ
FA8 Testing (automated tests)	Checking the level of assimilation of knowledge, skills and abilities from each topic.	During the entire period of studying the discipline	The student must provide 60% of the correct answers, which is an admission to the practical part of the lesson

10.3 Summative assessment

	Description	Deadline, weeks	Feedback
SA1 Current evaluation of the level of theoretical and practical training includes evaluation of written works, surveys, situational problems, testing.	Determination of the level of acquired knowledge.	During the entire period of studying the discipline	A student can get a maximum of 120 points, a minimum of 72 points
SA2 Final control: differentiated assessment.	Compilation of practical-oriented differentiated assessment. Includes a final assessment of the performance of practical skills, a final test.	In the last lesson.	The maximum number of points that the winner can get is 80 points, the minimum number of points is 48 points.

Form of assessment:

Form of assessment:

	Points	Можливість перескладання з метою підвищення оцінки
The first semester of teaching	200 scores	
SA1. Current evaluation of the level of theoretical and practical training includes evaluation of written works, surveys, situational problems, testing.	120	
Assessment of written works, surveys, situational problems, testing.	120	No
SA2. Final control: differentiated assessment.	80	
answer to theoretical questions	40	No
answer to the question of practical training	30	No
computer testing	10	No

When learning the materials of the module, the student is awarded a maximum of 5 points for each practical lesson (the grade is given in the traditional 4-point grading system). At the end of the academic year, the student's arithmetic average is calculated. The maximum number of points that a student can receive in practical classes during the academic year is 120. A student is admitted to credit if he meets the requirements of the educational program and if he has scored at least 72 points for the current educational activity. Practice-oriented assessment is conducted according to the schedule. The tickets contain 4 theoretical questions on various topics and cover all sections of the academic discipline (10 points each), 1 practical task (30 points) and testing (10 points). A credit is given to a student if he scored at least 48 points out of 80. Incentive points are added to the grade in the discipline for the implementation of an individual research project (defense of a student thesis 10 points, speech at a conference, poster presentation at a conference, theses of reports - 5 points). The total score for the discipline cannot exceed 200 points. The possibility of re-crediting the points obtained under the system of non-formal education is provided in accordance with the Regulations.

11. Learning resources

11.1 Material and technical support

MTS1	Information and communication systems
MTS2	Library funds, archive of results of laboratory examination methods
MTS3	Computers, computer systems and networks
MTS4	Simulation center (phantoms)
MTS5	MNO CCH NAMED AFTER ST. ZINAIDA OF SCC
MTS6	Multimedia, video and sound reproduction, projection equipment (video cameras, projectors, laptop screens)
MTS7	Software (to support distance learning)
MTS8	Medical equipment (electrocardiograph, height meter, scales, tonometer, phonendoscope, etc.)

Facilities and learning tools are provided at internship bases.

11.2 Information and methodical support

Essential Reading	
1	The urgent help and the rules of care of patients with diseases of the gastrointestinal tract: methodological instructions or practical lessons on the discipline “Nursing care” / compilers: O. I. Smiyan, Y. A. Manko. – Sumy : Sumy State University, 2021. –31 p
2	Methodical instructions for practical lessons on the topic “Emergency care and rules of care for patients with diseases of the urinary system” on the discipline “Nursing care” / compilers: O. I. Smiyan, Y. A. Manko, O. G. Vasilyeva. – Sumy : Sumy State University, 2023. – 24 p.
3	Nursing Skills in Pediatrics/ Study guide for students higher medical education/ Pokhylko V.I., Soloviova H.O. et all/ "Magnolia 2006", 2024. - 176 p.
Supplemental Reading	
1	Patient Care (Practical Course): textbook. – 2nd edition / O.M. Kovalyova, V.M. Lisovyi, R.S. Shevchenko et al. — K., 2018. — 320 p.
2	Methodical instructions for practical exercises in the discipline «Nursing» / compilers: G.A.Sumtsov, S. I. Bokova. – Sumy : Sumy State University, 2020. – 30 p.
3	Principles of Pediatric Nursing. Techniques for Medical Procedures and Manipulations : study guide (III–IV a. 1.) / O. V. Tiazhka, A. M. Antoshkina, M. M. Vasiukova et al.; edited by O. V. Tiazhka. – K. : AUS Medicine Publishing, 2016. – 144 p.
4	Smith B. Nursing Care. An Essential Guide for Nurses and Healthcare Workers in Primary and Secondary Care / Smith B., Field L. – London: Routledge, 2019. – 348 p.
5	Key Concepts and Issues in Nursing Ethics [Електронний ресурс] / edited by P. Anne Scott. — 1st ed. 2017. — Cham : Springer International Publishing, 2017. — XIX, 221 p. 250 illus., 223 illus. in color.

12. Bases

Practice bases can be departments of the pediatric profile of hospitals, which are the bases of departments of the medical institute, which will ensure the acquisition of professional competences and practical skills.

13. Policies

13.1 Academic Integrity Policy

Participants must complete all tasks identified in the internship program independently. Reporting for passing the internship should not contain plagiarism, facts of fabrication, falsification, cheating. During the internship period, manifestations of other types of academic dishonesty determined by the Academic Integrity policy are also unacceptable. If a supervisor reveals violations of academic integrity of students during the practice, he has the right to conduct one of the following actions:

- to reduce by up to 40% points received during the fulfillment of internship assignments;
- to give recommendations for a retake of submitted internship assignments with a decrease by up to 25% of received points;

- do not count the results of the internship without giving the right to revise them;
- appoint a retake with a decrease by up to 15% of received points;
- refuse to retake of internship

13.2 Політика щодо використання інструментів штучного інтелекту при виконанні завдань

Політика використання інструментів штучного інтелекту (ChatGPT, Tome тощо) оголошується викладачем на початку курсу.

Несанкціоноване використання інструментів штучного інтелекту є порушенням академічної доброчесності.

13.3 Політика щодо використання матеріалів з джерел відкритого доступу

При використанні здобувачами освіти матеріалів з джерел відкритого доступу для підготовки робіт, визначених силабусом та регламентом навчальної дисципліни, вони обов'язково мають дотримуватись умов ліцензій Creative Commons на використання об'єктів авторського права.

13.4 Attendance policy

Attendance to the internship base is mandatory. Supervisors from an enterprise (organization, institution) determine a student's schedule of stay at the internship base.

13.5 Deadline and recompilation policy

Deadline and recompilation policy

13.6 Assessment appeals policy

The results of the internship assessment are subject to appeal. For this, a student must submit a request to a director/dean on the day of certification or after announcing the results, but no later than the next working day.

An appeal commission is established by the order of a director/dean. The appeal commission's decision may change the grade in the event of violations revealed during the attestation.

COURSE DESCRIPTOR