

MINISTRY OF HEALTH OF UKRAINE  
KHARKIV NATIONAL MEDICAL UNIVERSITY

Department of Surgery No. 2  
The academic year 2024-2025

**THE SYLLABUS OF THE EDUCATIONAL COMPONENT  
"CLINICAL NURSING IN SURGERY"**

A normative or selective educational component;  
A normative

The form of obtaining an education is full-time, distance learning

Branch of knowledge 22 "Health care"

Specialty/EL 223 "Nursing" the first (bachelor) level of higher education

The educational and professional program  
"Nursing"

Course No. 4, (4 years of study)

The syllabus of the academic discipline was considered at the meeting of the Department of Surgery No. 2

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Protocol from  
"\_29\_"\_08\_2023\_\_ year, No. 12

Head of the Department of Surgery  
No. 2

\_\_\_\_\_ Kryvoruchko I.A.  
(signature) (initials, surname)



Approved by the Methodical Commission of KhNMU on problems of the surgical profile

\_\_\_\_\_ (name)

Protocol from  
"\_31\_"\_08\_2023 year, No. 1

Head of the Methodical  
Commission

\_\_\_\_\_ Syplyviy V.O.  
(signature) (initials, surname)



**THE DEVELOPERS OF THE SYLLABUS:**

1. Kryvoruchko Igor Andriyovych, Head of the Department of Surgery No. 2,  
Professor, doctor of medical sciences

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(surname, first name and patronymic, position, academic title, scientific degree)

2. Svirepo Pavlo Vasyliovych, Assistant of the Department of Surgery No. 2,  
candidate of medical sciences

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(surname, first name and patronymic, position, academic title, scientific degree)

3. Lesniy Vadim Viktorovich, Assistant of the Department of Surgery No. 2,  
candidate of medical sciences

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(surname, first name and patronymic, position, academic title, scientific degree)

4. Kolesnyk Varvara Petrivna, Assistant of the Department of Surgery No. 2,  
candidate of medical sciences

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(surname, first name and patronymic, position, academic title, scientific degree)

## **THE DATA ON TEACHERS TEACHING THE EDUCATIONAL COMPONENT**

Surname, first name, patronymic, position, academic title, scientific degree

1. Svirepo Pavlo Vasyliovych, Assistant of the Department of Surgery No. 2, candidate of medical sciences

Professional interests: general surgery, minimally invasive surgery, MOODLE, Google Meet, Google Teams

Contact phone number: 0501610389

Teacher's corporate email: pv.svirepo@knu.edu.ua

Consultations: face-to-face consultations, according to the schedule and place of classes, online consultations in the MOODLE, Google Meet, and Zoom system.

Location - Municipal non-profit enterprise of the Kharkiv Regional Council "Regional Clinical Hospital", 6th floor, the Department of Surgery No. 2.

Place of lectures, practical classes: study room based on the department.

Time of classes: Monday, Tuesday, Wednesday, Thursday, Friday (according to the schedule).

2. Lesniy Vadim Viktorovich, Assistant of the Department of Surgery No. 2, candidate of medical sciences

Professional interests: general surgery, minimally invasive surgery, MOODLE, Google Meet, Google Teams

Contact phone number: 0956036119

Teacher's corporate email: vv.lesnyi@knu.edu.ua

Consultations: face-to-face consultations, according to the schedule and place of classes, online consultations in the MOODLE, Google Meet, and Zoom system.

Location - Municipal non-profit enterprise of the Kharkiv Regional Council "Regional Clinical Hospital", 6th floor, the Department of Surgery No. 2.

Place of lectures, practical classes: study room based on the department.

Time of classes: Monday, Tuesday, Wednesday, Thursday, Friday (according to the schedule).

3. Kolesnyk Varvara Petrivna, Assistant of the Department of Surgery No. 2, candidate of medical sciences

Professional interests: general surgery, mammology, MOODLE, Google Meet, Google Teams.

Contact phone number: 0672529166

Teacher's corporate email: vp.kolesnyk@knu.edu.ua

Consultations: face-to-face consultations: according to the schedule and place of classes, online consultations in the MOODLE, Google Meet, and Zoom system.

Location - Municipal non-profit enterprise of the Kharkiv Regional Council "Regional Clinical Hospital", 6th floor, the Department of Surgery No. 2.

Place of lectures, practical classes: study room based on the department.

Time of classes: Monday, Tuesday, Wednesday, Thursday, Friday (according to the schedule).

## INTRODUCTION

**The syllabus of the study discipline** "Clinical Nursing in Surgery" is compiled in accordance with the educational and professional program (hereinafter referred to as the EPP) "Nursing" and the Standard of Higher Education of Ukraine (hereinafter referred to as the Standard), first (bachelor's) level, the field of knowledge 22 "Health Care", speciality "Nursing".

**Description of the academic discipline (abstract)** "Clinical Nursing in Surgery" is a component of the "Clinical Nursing" discipline, which also includes "Organization and implementation of the nursing process in internal medicine, pediatrics and surgery" and is one of the main clinical disciplines of bachelor's training in the speciality "Nursing", during the study of which students learn the methods of diagnosis of surgical diseases, their treatment and prevention, diagnosis and emergency care for injuries, burns and frostbite. "Clinical nursing in surgery" is an educational clinical discipline that studies the main causes, the mechanism of development of surgical diseases; main symptoms and syndromes of acute surgical diseases of internal organs; diagnosis and emergency care for injuries, burns and frostbite, the course of surgical diseases and differential diagnosis; value of additional (laboratory, instrumental, etc.) examination methods; modern principles and methods of treatment according to protocols; possible prevention of surgical diseases.

The organization of the educational process is carried out according to the requirements of the European credit transfer and accumulation system, which is based on a combination of learning technologies by sections and assessment credits - units of measurement of the student's educational load, necessary for mastering a discipline or its section.

**The subject** of study of the academic discipline "Clinical Nursing in Surgery" is a set of theoretical and practical questions aimed at students' assimilation of the main causes, the mechanism of the development of surgical diseases, the main methods of examining a patient in a clinic of surgical diseases and the rules for establishing a syndromic diagnosis, the principles of treatment and diagnosis of injuries, burns, frostbite, acute surgical diseases of internal organs.

**Interdisciplinary connections:** "Clinical nursing in surgery" as an educational discipline is integrated with the following disciplines: human anatomy, physiology, medical informatics, microbiology, medical biology, the basics of preventive medicine, nursing in obstetrics, gynecology, ophthalmology, oncology, otolaryngology, infectious diseases, dermatovenerology, medical and social rehabilitation, anesthesiology and resuscitation, disaster medicine.

**Prerequisites:** Human Anatomy and Physiology, Psychology, Pathological Anatomy and Physiology, Nursing, Neurology, Mental Health.

**Post-requisites:** Clinical Nursing in Surgery, Clinical Nursing in Pediatrics, Clinical Nursing in Therapy, Clinical Nursing in Occupational Pathology, Management and Leadership in Nursing, Occupational Health and Safety Fundamentals in the Industry.

**Link to the course page on MOODLE:**

<https://distance.knmu.edu.ua/course/view.php>

## **1. PURPOSE AND OBJECTIVES OF THE EDUCATIONAL DISCIPLINE**

**1.1. The purpose of studying the academic discipline** is to prepare a nurse at a high professional level to work in the surgical departments of a hospital and polyclinic, who must observe patients, assess their condition, master the technique of nursing manipulations, draw up a nursing care plan for a patient, care for patients, provide first aid pre-medical care, prevention of postoperative complications, dispensary monitoring of patients.

**1.2. The main tasks of studying the discipline "Clinical Nursing in Surgery"** are:

- to form a conscious understanding of the legal aspects of the organization of surgical care;
- ensure knowledge of surgical terminology;
- give the basics of the practical organization of the work of a surgical hospital and specialized surgical departments;
- teach theoretical and practical mastery of the strategy of nursing care to patients who are treated in specialized surgical departments;
- to achieve the assimilation of knowledge on the provision of emergency aid;
- to systematize knowledge about the organization of the work of the surgical office in the polyclinic;
- learn to work with a family doctor;
- inculcate the ability to apply the nursing process in working with patients;
- formation of students' moral-ethical and deontological qualities during professional communication with patients.

**1.3. Competences and learning outcomes**, the formation of which is facilitated by the discipline (interrelationship with the normative content of the training of higher education applicants, formulated in terms of learning outcomes in the EPP and the Standards).

**1.3.1.** The study of the academic discipline ensures that students acquire the following **competencies**:

**an integral:**

the ability to solve typical and complex specialized tasks and practical problems in professional activities in the field of health care, or in the learning process, which involves conducting research and/or implementing innovations and is characterized by the complexity and uncertainty of conditions and requirements.

**a general:**

1. Ability to abstract thinking, analysis and synthesis.
2. The ability to learn and master modern knowledge.
3. Ability to apply knowledge in practical situations.
4. Knowledge and understanding of the subject area and understanding of the professional activity.
5. Ability to adapt and act in a new situation.

6. Ability to make informed decisions.
7. Ability to work in a team.
8. Interpersonal skills.
9. Skills in using information and communication technologies.
10. Determination and persistence in relation to assigned tasks and assumed responsibilities.
11. The ability to act socially responsibly and consciously.
12. Efforts to preserve the environment.
13. Ability to act on the basis of ethical considerations (motives).

**special (professional, subject):**

1. The ability to identify the connection between the pathogenesis of diseases and clinical manifestations and the results of additional research methods.
2. The ability to evaluate the organization and quality of the provision of various types of medical care and the provision of sanitary-epidemiological well-being and public health of the population, to carry out patient education and advocacy.
3. The ability to orientate in the group membership of medicines, the peculiarities of their pharmacokinetics and pharmacodynamics.
4. Ability to perform nursing interventions in accordance with clinical protocols and nursing standards.
5. Ability to organize and provide emergency medical care in emergency situations.
6. Ability to organize and provide emergency aid in emergency situations in peacetime and wartime.
7. The ability to assess development risks, and methods of diagnosing diseases of civilization.
8. Ability to provide geriatric, palliative medical care and care for the elderly.
9. Ability to plan and implement rehabilitation assistance.
10. Ability to provide medical care based on the principle of family-oriented medicine.
11. Ability to organize and manage the activities of nursing structural units.
12. The ability to apply scientific approaches to research design planning, data collection, dissemination and use of the results of scientific research in the field of health care.
13. The ability to apply the basics of pedagogy and psychology in the educational process in institutions of higher education.
14. Ability to effectively and competently participate in various forms of scientific communication (conferences, round tables, discussions, scientific publications) in the field of health care.

**1.3.2.** The study of the academic discipline ensures that students obtain the following **program learning outcomes (PLO)**:

- PLO 1. Having professional knowledge; to be able to formulate ideas, and concepts using order in the work of an academic or professional direction.
- PLO 3. Performing managerial functions and organizing the provision of quality services in the field of health care.

PLO 4. Applying professional knowledge formed on the basis of world scientific sources of medical information.

PLO 5. Motivating and stimulating the acquisition of knowledge to improve one's own professional skills and abilities.

PLO 6. Demonstrating activity, and supporting leadership in solving problematic issues related to professional activity.

PLO 7. Applying ethical and deontological tasks in professional activities, with the solution of problematic issues regarding special beliefs and ethical considerations.

PLO 8. Developing and implementing professional activity plans, identifying professional problems and finding ways of their constructive development.

PLO 12. Applying standards of professional activity.

PLO 14. Assessing risks and planning appropriate actions in case of emergency situations in the field of health care.

PLO 16. Critically evaluate the results of scientific research in the field of health care, present your own research, and formulate conclusions and recommendations for implementation based on their results.

**1.3.3.** The study of the academic discipline ensures that students acquire the following **social skills**:

- Communication skills.
- The ability to work in a team, communicate with people and manage conflicts, ability to assess and analyze the situation.
- The ability to organize, plan and effectively execute projects and tasks.
- The ability to perform work professionally and responsibly.
- The ability to show emotional intelligence in interactions with colleagues, clients, with the manager, a sense of tact and randomness of reactions.

## 2. THE INFORMATION VOLUME OF THE EDUCATIONAL DISCIPLINE

The name of the indicators	The field of knowledge, speciality, educational degree, OPP	The characteristics of the academic discipline
		<b>full-time education</b>
<b>The number of credits is 3</b>	The field of knowledge 22 "Health care"	It is a normative
<b>The total number of hours is 90</b>	Speciality: 223 "Nursing"	<b>The course:</b> 4 <sup>th</sup>
		<b>The semester:</b> 7 <sup>th</sup>
		<b>The lectures:</b> 20 hours
<b>The number of hours for full-time education: for an auditorium, works are 50 hours; for self-sufficient student, works are 40 hours</b>	The first degree (bachelor's degree)	<b>The practical training:</b> 30 hours
		<b>The individual work:</b> 40 hours
		<b>The exam</b>
<b>The type of final control:</b>		

## 2.1 A description of the discipline

### 2.2.1 The lectures

No. in order	The topic name	Number of hours	The type of lecture
1	The history of surgery in Ukraine. An organization of surgical care in Ukraine. The ethics and deontology in surgery, oncology. New technologies in surgery: endoscopic, endovascular, laser, ultrasound, tissue welding, implants. The modern methods of diagnosis and treatment.	2	A lecture-visualization
2	The peculiarities of the nurse's work in the department of surgical infection. Local purulent surgical infection. Anaerobic and specific surgical infection. General purulent surgical infection.	2	A lecture-visualization
3	Clinical examination of patients with closed and open mechanical injuries, with thermal injury.	2	A thematic lecture
4	Clinical examination of patients with injuries and surgical diseases of the chest and its organs	2	A thematic lecture
5	Clinical examination of patients with injuries and surgical diseases of abdominal organs	2	A thematic lecture
6	Implementation of the nursing care plan for oncological diseases	2	A lecture using the feedback technique
7	Nursing care for patients with vascular diseases of the lower limb.	2	A thematic lecture
8	Nursing care strategy for patients with kidney and bladder dysfunction.	2	A lecture – information
9	Nursing care, diagnosis and emergency care for internal and external bleeding.	2	A lecture using the feedback technique
10	Nursing care and tactics of care for a patient with surgical pathology and accompanying disorders of the respiratory system, cardiovascular disorders, with postoperative complications	2	A lecture-visualization
Hours in general:		<b>20</b>	



### 2.2.2 The practical classes

No. in order	The topic name	Number of hours	The methods of teaching	The forms of control
1	The basic principles of providing surgical care to the population of Ukraine and its legal aspects. The structure of the operating unit and the basic principles of compliance with the sanitary and hygienic regime of the surgical department	4	story-explanation, conversation, lecture, illustration, demonstration, presentation, videos, video films, discussion, simulation of processes and situations, delegation of authority, debates.	oral survey (individual and face-to-face); written survey; test control; creative tasks; individual tasks; abstracts; report; declamation.
2	Peculiarities of the nurse's work in the department of surgical infection. Local purulent surgical infection. Anaerobic and specific surgical infection. General purulent surgical infection.	4	story-explanation, conversation, lecture, illustration, demonstration, presentation, videos, video films, discussion, simulation of processes and situations, delegation of authority, debates.	oral survey (individual and face-to-face); written survey; test control; creative tasks; individual tasks; abstracts; report; declamation.
3	The features of the application of various methods of stopping bleeding. Modern methods of determining blood loss. Methods of blood group and Rh factor determination. Observation of the patient during hemotransfusion.	4	story-explanation, illustration, demonstration, presentation, video clips, video films, discussion,	oral survey (individual and face-to-face); written survey; test control; creative tasks; individual

			business, role-playing, simulation game, simulation of processes and situations, a delegation of authority, case method, project method, debates, Brainstorming method.	tasks; abstracts; report; declamation.
4	A clinical examination of patients with closed and open mechanical injuries, thermal trauma	4	story-explanation, consequences, demonstration, presentation, video clips, video films, discussion, business, role-playing, simulation game, simulation of processes and situations, delegation of authority, sparring-partnership (training in pairs).	oral survey (individual and face-to-face); written survey; test control; creative tasks; individual tasks; abstracts; report; declamation.
5	A clinical examination of patients with injuries and surgical diseases of the head and neck.	4	story-explanation, consequences, demonstration, presentation, video clips, video films, discussion, business, role-	oral survey (individual and face-to-face); written survey; test control; creative tasks; individual tasks;

			playing, simulation game, simulation of processes and situations, delegation of authority, sparring-partnership (training in pairs).	abstracts; report; declamation.
6	A clinical examination of patients with injuries and surgical diseases of the chest and its organs	4	story-explanation, consequences, demonstration, presentation, video clips, video films, discussion, business, role-playing, simulation game, simulation of processes and situations, delegation of authority, sparring-partnership (training in pairs).	oral survey (individual and face-to-face); written survey; test control; creative tasks; individual tasks; abstracts; report; declamation.
7	A clinical examination of patients with injuries and surgical diseases of abdominal organs	4	story-explanation, consequences, demonstration, presentation, video clips, video films, discussion, business, role-playing, simulation game,	oral survey (individual and face-to-face); written survey; test control; creative tasks; individual tasks; abstracts; report; declamation.

			simulation of processes and situations, delegation of authority, sparring-partnership (training in pairs).	
8	A clinical examination of patients with injuries and surgical diseases of the organs of the urinary and reproductive systems	4	story-explanation, consequences, demonstration, presentation, video clips, video films, discussion, business, role-playing, simulation game, simulation of processes and situations, delegation of authority, sparring-partnership (training in pairs).	oral survey (individual and face-to-face); written survey; test control; creative tasks; individual tasks; abstracts; report; declamation.
Hours in general:			<b>30</b>	

### 2.2.3. The individual work

No. in order	The topic name	Number of hours	The methods of teaching	The forms of control
1	Classification of surgical care. Peculiarities of the organization of the work of undergraduate nurses in general surgical and specialized surgical departments (thoracic; neurosurgical; urological; proctological; endocrine and laparoscopic	4	video films, and individual work with the information sources.	abstracts; annotations; self-control; report; speech on a given topic, portfolio method,

	surgery; traumatological, etc.). Nursing process in surgical clinics.			poster presentation.
2	Surgical terminology. Types of surgical interventions. Surgical risk. Preoperative care and diagnosis of surgical diseases. Preoperative preparation of patients.	4	video films, and individual work with the information sources.	abstracts; annotations; self-control; report; speech on a given topic, portfolio method, poster presentation.
3	An operating nurse is a surgeon's assistant. Surgical wound. Principles of drainage and decompression. Types, indications, and techniques of primary and secondary wound treatment. Organization of work and tasks of operating room personnel. Surgical instruments, suture material. Technique and course of operations.	4	video films, and individual work with the information sources.	abstracts; annotations; self-control; report; speech on a given topic, portfolio method, poster presentation.
4	Nursing care strategy for patients with kidney and bladder dysfunction. Methods of assessment of kidney and bladder function. Kidney failure. Lithiasis and urolithiasis. Injuries of the urogenital system.	4	video films, and individual work with the information sources.	abstracts; annotations; self-control; report; speech on a given topic, portfolio method, poster presentation.
5	Postoperative period. Purpose, tasks and features of nursing care for patients during various types of surgical interventions. Early and late postoperative complications. Intestinal paresis. Infection control in surgical clinics.	4	video films, and individual work with the information sources.	abstracts; annotations; self-control; report; speech on a given topic, portfolio method, poster presentation.
6	Blunt injuries of the abdomen	4	video films,	abstracts;

	with damage to internal organs. Injury to the organs of the retroperitoneal space.		and individual work with the information sources.	annotations; self-control; report; speech on a given topic, portfolio method, poster presentation.
7	Acute thrombophlebitis. Classification. The clinical picture. Differential diagnosis. Postthrombophlebitic disease. Raynaud's disease and syndrome.	4	video films, and individual work with the information sources.	abstracts; annotations; self-control; report; speech on a given topic, portfolio method, poster presentation.
8	Nonspecific ulcerative colitis. Crohn's disease. Congenital diseases of the colon.	4	video films, and individual work with the information sources.	abstracts; annotations; self-control; report; speech on a given topic, portfolio method, poster presentation.
9	The importance of blood and blood-forming organs in surgery. Clinical laboratory evaluation of the hemostasiological state. Diagnosis of internal and external bleeding. Hemotransfusion and infusion, Indications, contraindications, transfusion technique, possible complications, and prevention of complications.	4	video films, and individual work with the information sources.	abstracts; annotations; self-control; report; speech on a given topic, portfolio method, poster presentation.
10	Tumors of the head, neck, breast. The final lesson.	4	video films, and individual work with the information	abstracts; annotations; self-control; report; speech

			sources.	on a given topic, portfolio method, poster presentation.
Hours in general:			<b>40</b>	

**The teaching methods:** story-explanation, conversation, lecture, illustration, demonstration, presentation, videos, video films, discussion, round table, business, role-playing, simulation game, simulation of processes and situations, a delegation of authority, case method, project method, debates, Brainstorming method, webinar, sparring partnership (training in pairs), coaching (training), virtual consultation, virtual tutorial, briefing, interview, Delphi method, fishbone method, virtual operating room, standardized patient, use of high-level mannequins, interdisciplinary training and others.

**The control methods:**

*The current control:* an oral survey (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; annotations; portfolio method; mutual control; self-control; report; declamation; poster report and others.

*The final control:* an exam.

### 3. EVALUATION CRITERIA

**3.1.** Evaluation of the educational success of education seekers is carried out based on the current "Instructions for evaluating the educational activity of education seekers of the KhNMU"

**Organization of assessment of current control.** Mastery of the topic (current control) is monitored in a practical session according to specific goals. The following means of assessing the level of students' training are used: solving situational problems, interpreting and evaluating the results of laboratory research, analyzing and evaluating the results of instrumental research and parameters characterizing the functions of the human body, monitoring the acquisition of practical skills. The final class (CS) must be held according to the program of the academic discipline during the semester according to the schedule, during classes. Admission of students is carried out by the teacher of the academic group. Evaluation is carried out according to the traditional 4-point system: "excellent", "good", "satisfactory" and "unsatisfactory".

#### The criteria for evaluating the results of educational activities students of education in disciplines

Grades	Evaluation criteria
"Excellent"	The student shows special creative abilities, knows how to independently acquire knowledge, finds and processes the necessary information without the help of a teacher, knows how to use the acquired knowledge and skills to make

	decisions in non-standard situations, convincingly argues answers, independently reveals his own gifts and inclinations.
<b>"Very good"</b>	The student is fluent in the studied amount of material, applies it in practice, freely solves exercises and problems in standard situations, and independently corrects the mistakes made, the number of which is insignificant.
<b>"Good"</b>	The student is able to compare, summarize, and systematize information under the guidance of the teacher; in general, independently apply it in practice; control one's own activities; correct errors, including essential ones, to select arguments to support opinions.
<b>"Satisfactory"</b>	The student reproduces a significant part of the theoretical material, and demonstrates knowledge and understanding of the main provisions; with the help of the teacher, he can analyze the educational material, and correct errors, among which there are a significant number of significant ones.
<b>"Enough"</b>	The student possesses educational material at a level higher than the initial level and reproduces a significant part of it at the reproductive level.
<b>"Unsatisfactory" with the possibility of retaking the semester control.</b>	The student possesses the material at the level of individual fragments, which constitute a small part of the educational material.
<b>"Unsatisfactory" with a mandatory repeated study of credit.</b>	The student possesses the material at the level of elementary recognition and reproduction of individual facts, elements, objects.
<b>In particular, the criteria for evaluating practical skills in disciplines.</b>	
<b>"Excellent"</b>	The student corresponds to a high (creative) level of competence: the student shows special creative abilities, independently demonstrates the implementation of practical skills without errors and possesses systematic theoretical knowledge (knows the method of performing practical skills, indications and contraindications, possible complications, etc.) and has the ability to accept solutions in non-standard situations.
<b>"Good"</b>	The student independently demonstrates the performance of practical skills, admitting some inaccuracies, which he quickly corrects, and possesses theoretical knowledge (knows the methodology of performing practical skills, indications and contraindications, possibilities of expansion, etc.).



<b>"Satisfactory"</b>	The student demonstrates the performance of practical skills, making some mistakes that can be corrected when corrected by the teacher, possesses satisfactory theoretical knowledge (knows the basic provisions of the methodology for performing practical skills, indications and contraindications, possible complications, etc.).
<b>"Unsatisfactory"</b>	The student cannot independently demonstrate practical skills (performs them, making gross mistakes), and does not have a sufficient level of theoretical knowledge (does not know the methods of performing practical skills, indications and contraindications, possible complications, etc.).

Recalculation of the average grade for the current educational activity into a multi-point scale is carried out in accordance with the "Instructions for evaluating the educational activity of students..." or the average grade (to the nearest hundredth) for the current academic performance is automatically obtained by the teacher using the electronic journal of the automated system.

**Recalculation of the average grade for the current control into a multi-point score (for disciplines ending with a differentiated test).**

4-point score	120-point score	4-point score	120-point score
5	120	3.91-3,94	94
4.95-4,99	119	3.87-3,9	93
4.91-4,94	118	3.83- 3,86	92
4.87-4,9	117	3.79- 3,82	91
4.83-4,86	116	3.74-3,78	90
4.79-4,82	115	3.7- 3,73	89
4.75-4,78	114	3.66- 3,69	88
4.7-4,74	113	3.62- 3,65	87
4.66-4,69	112	3.58-3,61	86
4.62-4,65	111	3.54- 3,57	85
4.58-4,61	110	3.49- 3,53	84

4.54-4,57	109	3.45-3,48	83
4.5-4,53	108	3.41-3,44	82
4.45-4,49	107	3.37-3,4	81
4.41-4,44	106	3.33- 3,36	80
4.37-4,4	105	3.29-3,32	79
4.33-4,36	104	3.25-3,28	78
4.29-4,32	103	3.21-3,24	77
4.25- 4,28	102	3.18-3,2	76
4.2- 4,24	101	3.15- 3,17	75
4.16- 4,19	100	3.13- 3,14	74
4.12- 4,15	99	3.1- 3,12	73
4.08- 4,11	98	3.07- 3,09	72
4.04- 4,07	97	3.04-3,06	71
3.99-4,03	96	3.0-3,03	70
3.95- 3,98	95	Less than 3	Not enough

The minimum number of points to be scored by the student for the current activity while studying the section is 70 points, and the maximum number of points is 120 points.

**Assessment of students' independent work.** The independent work of students, which is provided for by the subject of the lesson along with the classroom work, is evaluated during the current control of the topic in the corresponding lesson and during an exam.

**Assessment of individual student tasks** is carried out under the conditions of the performance of the teacher's tasks (an abstract report at a practical session, a report with a presentation at a practical session, a report at scientific and practical conferences of the department, university, writing theses, articles, participation in the All-Ukrainian Olympiad). Points (up to 10) are added as incentives. The total number of points for the current educational activity cannot exceed 120 points.

**Organization of the final control (an exam).** Admission to differential credit is determined by the points of the current educational activity, namely: min - 70, max - 120 points. The differential test is carried out by the teacher of the academic group or by the committee in the appointed termin.

An exam is a process during which the course credits are checked:

- level of theoretical knowledge;
- development of creative thinking;
- skills of independent work;
- competencies that include the ability to synthesize the acquired knowledge and apply it in solving practical tasks.

During an exam, the assimilation of practical skills and theoretical knowledge is evaluated according to the tickets compiled at the department, which include all topics of the discipline.

### **Evaluation of theoretical knowledge and practical skills, if they are presented in one exam ticket**

Number of questions	«5»	«4»	«3»	The answer is for exam tickets that include the theoretical and practical parts of the discipline	For each answer, the student receives from 10 to 16 points
1	16	13	10		«5» - 16 points; «4» - 13 points; «3» - 10 points.
2	16	13	10		
3	16	13	10		
4	16	13	10		
5	16	13	10		
	80	65	50		

Directly differentiated credit is estimated from 50 to 80 points.

### **The technology of discipline assessment**

The evaluation of the results of studying discipline is carried out immediately after an exam. The grade in the discipline is defined as the sum of **the current points** in the academic discipline and **an exam** and is a minimum 120 and a maximum of 200 points.

### **Correspondence of grades on a 200-point score, four-point (national) score and ECTS scale**

The assessment is based on a 200-point scale	ECTS grade	Assessment on a four-point (national) scale
180–200	A	"Excellent"
160–179	B	"Good"

150–159	C	"Good"
130–149	D	"Satisfactory"
120–129	E	"Satisfactory"
Less than 120 points	F, Fx	"Unsatisfactory"

The grade for the discipline is assigned only to students who have passed all final control classes, an exam.

The students who have not met the requirements of the curriculum of the disciplines are assigned an **F<sub>x</sub>** grade if they were allowed to take a differentiated credit or exam, but did not pass it. A grade of F is given to students who are not allowed to take a differentiated test or exam.

Grades of "**F<sub>x</sub>**" or "**F**" ("unsatisfactory") are assigned to students who have not been enrolled in a discipline whose form of control is credit.

After completing the study of the discipline, the person responsible for the organization of educational and methodical work at the department or the teacher gives the student the appropriate grade according to the scales (Table) in the record book and fills in the information.

If the exam is not passed, resit dates are set during the vacation, before the beginning of the next semester.

### **3.2. Assessment questions (current semester control):**

1. The history of the development of the doctrine of surgical diseases. Contribution of Ukrainian scientists to the development of domestic surgery.
2. Basic principles of human health protection in Ukraine. Organization of surgical service.
3. Subjective signs and objective manifestations characterizing the
4. The body's general reaction to injury. Shock index, value, definition condition of a patient with various types of mechanical injury (dislocation, fracture).
5. Diagnostic signs of traumatic shock. Degrees of severity of shock and its characteristics.
6. Traumatic disease. Multiple organ failure
7. Polytrauma. Syndrome of mutual aggravation
8. Correction of violations of the electrolyte balance, acid-alkaline balance, and metabolic processes of the body.
9. Wounds. Clinical signs of the wound process, and its characteristics.
10. Types of wound healing.
11. Thermal burn. Definition. Classification of degrees of burns and periods of burn disease, dispensation. Principles of protocol treatment and prevention.
12. Syndrome of disseminated intravascular coagulation. Fat embolism.
13. Combined radiation-chemical lesions of the surgical profile.
14. Organizational features of providing surgical care in emergency situations.

15. Pathogenesis of frostbite and general frostbite. Dispensation, diagnostic criteria, principles of treatment according to protocols and prevention.
16. Cold injury.
17. Local and general reaction of the body to the penetration of microorganisms.
18. Abscess. Phlegmon. Furuncle. Carbuncle. Offender. Definition.
19. Modern classification of surgical infection. Aetiology. Pathogenesis. Clinical symptoms. Diagnosis. Treatment according to protocols.
20. Panaritsia and phlegmon of the hand.
21. Lymphadenitis. Hidradenitis. Erysipelas. Definition. Aetiology. Pathogenesis. Clinical symptoms. Diagnostics. Treatment according to protocols.
22. Osteomyelitis. Definition, causes, pathogenesis, clinical manifestations, examination, diagnosis, principles of treatment according to protocols, and prevention.
23. Anaerobic surgical infection. Tetanus. Gas gangrene. Definition. Aetiology. Pathogenesis. Clinical symptoms. Diagnostics. Treatment according to protocols.
24. Anaerobic non-sporulating infection.
25. Specific surgical infection. Tuberculosis of bones and joints.
26. Definition. Aetiology. Pathogenesis. Classification. Clinical symptoms. Diagnostics. Treatment according to protocols.
27. General purulent surgical infection. Sepsis. Aetiology. Pathogenesis. Classification. Clinical manifestations, examination. Diagnostic criteria. Treatment according to protocols, prevention of complications.
28. Necrosis, gangrene, fistula ulcer.
29. AIDS and associated surgical problems.
30. Toxicoinfectious shock. Definition. Aetiology. Pathogenesis. Clinical symptoms. Diagnostics. Treatment according to protocols.
31. Modern views on the aetiology of tumours. Classification of tumours by stages of development and clinical groups. International classification according to the TNM system.
32. Carcinogenesis at the level of organ cells and harmful substances
33. Benign and malignant findings. Stages of development. Causes, treatment according to protocols and prevention. Deontology in oncology.
34. Syndrome of endogenous intoxication of oncological diseases
35. Head injuries. Open and closed head and face injuries. Causes, clinical examination, principles of treatment according to protocols, and the profile of complications.
36. Brain injury. Brain injury syndrome. Classification. Clinical manifestations. Emergency measures. Diagnostics. Treatment according to protocols.
37. Brain injuries: concussion, contusion, compression. Reasons. Clinical manifestations. Examination. Diagnostics. Emergency measures. Treatment according to protocols.
38. Fracture of skull bones. Gunshot wounds to the head. Maxillofacial injuries. Reasons. Clinical manifestations. Examination. Diagnostics. Emergency aid. Treatment according to protocols.
40. Treatment of neurotrauma at the stages of medical evacuation. First aid.

41. General issues of anesthesiology and resuscitation
42. Inflammable remaining heads. Meningitis. Brain abscess.
43. Traumatic and metastatic abscesses. Aetiology. pathogenesis. Clinical manifestations. Examination. Diagnostics. Emergency aid. Treatment according to protocols.
44. Brain tumours: benign and malignant. Reasons. Clinical manifestations. Diagnostics. Treatment according to protocols.
45. Congenital malformations of the head. Reasons. Clinical examination. Diagnostics. Treatment according to protocols.
46. Inflammatory diseases of the oral cavity and parotid gland. Aetiology. Clinical manifestations. Diagnostics. Treatment according to protocols.
47. Neck injuries. Classification. Clinical manifestations. Examination. Treatment according to protocols.
48. Damage to the neck and air embolism.
49. Congenital defects of the neck.
50. Surgical diseases of the thyroid gland: goitre, forms, degrees, clinical manifestations, examination, diagnosis. Indications for operative delivery.
51. Tumors of the neck. Thyroid cancer. Aetiology. Pathogenesis. Clinical manifestations. Diagnostics. Treatment according to protocols.
52. Tracheostomy. Showings. Care of patients with a tracheostomy.
53. Dislocations and fractures of the lower jaw. Reasons. Clinical examinations. Diagnostics. Emergency care and treatment according to protocols.
54. Chest injuries. Causes, clinical manifestations, and examination. Emergency care, diagnosis and treatment according to protocols.
55. Lung damage. Pneumonia. Lung ruptures. Traumatic asphyxia.
56. Damage to the heart: bruise, injury
57. Fractures of ribs, sternum, clavicle. Causes, clinical examination. Diagnostics. Emergency aid.
58. Pneumothorax. Aetiology. Classification, clinical manifestations. Emergency aid. Diagnosis and treatment according to protocols.
59. Hemothorax. Classification. Clinical picture. Diagnostics.
60. Pleuropulmonary shock. Acute respiratory failure. Treatment according to protocols
61. Inflammation of the lungs. Pleurisy. Pleural empyema. Lung abscess. Gangrene of the lungs. Aetiology. Pathogenesis. Clinical manifestations. Diagnostics. Treatment according to protocols. Prevention.
62. Tuberculosis of the lungs. Aetiology. Pathogenesis. Examination. Diagnostics. Treatment according to protocols.
63. Lung tumours. Aetiology. Pathogenesis. Clinical manifestations. Diagnostics. Treatment according to protocols.
64. Osteoporosis. Aetiology. Pathogenesis. Clinical manifestations. Diagnostics. Treatment according to protocols.
65. Breast disease. Inspection, palpation, examination. Special examination methods. Acute mastitis, clinical manifestations, treatment and prevention.

66. Developmental defects of the mammary gland. Non-specific diseases of the mammary gland.
67. Benign and malignant breast tumours. Breast cancer. Aetiology. Pathogenesis. Clinical manifestations. Diagnostics. Treatment according to protocols.
68. Injuries of abdominal organs, clinical examination, diagnosis.
69. Abdominal hernias. Classification. Aetiology. Clinical examination. Diagnostics. Treatment.
70. Pylorostenosis. Perforated ulcer of the stomach and duodenum. Gastrointestinal bleeding. Aetiology. Pathogenesis. Clinical manifestations. Diagnostics. Emergency aid. Treatment according to protocols.
71. Stomach cancer. Aetiology, risk factors, clinical manifestations, diagnosis and treatment.
72. Acute appendicitis. Classification. Aetiology. Clinical examination. Differential diagnosis. Treatment. Complication.
73. Acute pancreatitis. Pancreonecrosis. Aetiology, clinical manifestations, examination, diagnosis and treatment according to protocols.
74. Gallstone disease. Aetiology, pathogenesis, examination, differential diagnosis. Indications for surgical intervention.
75. Acute cholecystitis. Aetiology. Pathogenesis. Clinical manifestations. Diagnostics. Treatment according to protocols.
76. Acute intestinal obstruction, causes, clinical examination, diagnosis, treatment according to protocols.
77. Peritonitis. Classification. Causes, clinical examination. Diagnosis and treatment according to protocols.
78. Surgical diseases of the liver.
79. Special methods of colon research.
80. Congenital diseases of the colon.
81. Nonspecific ulcerative colitis. Crohn's disease.
82. Surgical diseases of the rectum. Haemorrhoids. Rectal prolapse. Clinical examination. Diagnosis, and treatment according to protocols.
83. Paraproctitis. Aetiology. Pathogenesis. Clinic. Diagnostics. Treatment according to protocols.
84. Tumors of the rectum. Cancer. Aetiology. Pathogenesis. Examination. Diagnostics. Treatment.
85. Rectal injuries. Aetiology. Pathogenesis. Examination. Diagnostics. Treatment according to protocols.
86. Injuries of organs of the urinary system. Aetiology. Pathogenesis. Clinical examination. Diagnostics. Treatment according to protocols.
87. Cystitis. Aetiology. Pathogenesis. Clinical manifestations. Diagnostics. Treatment according to protocols.
88. Kidney stone disease. Aetiology, pathogenesis, clinical examination, laboratory and instrumental methods of examination, diagnostic criteria, and treatment according to protocols. Providing emergency care for an attack of renal colic.
89. Acute retention of urine. Aetiology, clinical manifestations, emergency care, diagnosis and treatment according to protocols.

90. Tuberculosis of the kidneys. Aetiology. Pathogenesis. Clinical examination. Diagnostics. Treatment according to protocols.
91. Congenital malformations of the urinary system.
92. Kidney tumours. Aetiology. Pathogenesis. Clinical manifestations, differential diagnosis, treatment.
93. Prostatitis. Aetiology. Pathogenesis. Clinical examination. Diagnostics. Treatment according to protocols. Prevention.
94. Adenoma of the prostate gland. Cancer. Aetiology. Pathogenesis. Clinical signs. Treatment. Disease prevention.
95. Acute surgical diseases of female genital organs. Clinical picture. Diagnostics
96. Injuries of the spine. Aetiology. Pathogenesis. Clinical examination. Diagnostics. Treatment according to protocols. Prevention of complications.
97. Surgical diseases of the spine: kyphosis, lordosis, scoliosis. Aetiology. Pathogenesis. Clinical examination. Diagnosis and treatment according to protocols. Prevention of complications.
98. Tuberculous spondylitis. Aetiology. Pathogenesis. Clinical manifestations. Diagnostics. Treatment according to protocols. Prevention of complications.
99. Pelvic bone injuries. Fracture. Aetiology. Pathogenesis. Clinical examination. Diagnostics. Treatment according to protocols. Prevention of complications.
100. Closed injuries of the abdomen with damage to internal organs. Damage to organs of the retroperitoneal space
101. Obliterative endarteritis. Aetiology. Pathogenesis. Clinical manifestations, examination. Diagnostics. Treatment according to protocols. Prevention.
102. Obliterative atherosclerosis of the lower extremities. Aetiology. Pathogenesis. Clinical manifestations, examination. Diagnostics. Treatment according to protocols. Prevention.
103. Varicose veins of the lower extremities. Aetiology. Pathogenesis. Clinical examination. Diagnosis and treatment according to protocols.
104. Acute thrombophlebitis. Classification. Clinical picture. Differential diagnosis.
105. Postthrombophlebitic disease. Clinical examination. Diagnosis and treatment according to protocols.
106. Raynaud's disease and syndrome. Clinical examination. Diagnosis and treatment according to protocols.

### **3.3. Control questions.**

Mastery of topics that are presented only for independent work is checked during the final lesson.

1. Brain injuries. Types of injuries. Emergency care. Treatment.
2. Skull bone injuries, their types, emergency care and treatment.
3. Closed chest injury. Emergency aid. Treatment.
4. Open chest injury. Patients and solving problems. Emergency care. Treatment.
5. Spine injuries. Classification. Emergency care.
6. Pelvic bone injuries. Emergency care.
7. Surgical infection. Classification. Local and genera



manifestations of purulent surgical infection.

8. Local purulent surgical infection: phlegmon, carbuncle, lymphadenitis. Pathogens. Favourable factors.

9. Local purulent surgical infection: furuncle, dysentery, hidradenitis. Pathogens. Favourable factors.

10. Osteomyelitis. Classification. Methods of diagnosis and treatment.

11. Sepsis. Classification. Methods of diagnosis and treatment.

12. Anaerobic infection. Gas gangrene, its causative agents. Forms of gas gangrene.

13. Tetanus. Causes of development, favourable factors.

14. Surgical tuberculosis. Classification. Phases of the course.

15. Diseases of the arteries of the lower extremities. Obliterating atherosclerosis and obliterating endarteritis. Favourable factors. Treatment and care.

16. Varicose veins of the lower extremities. Favourable factors.

17. Perforated ulcer of the stomach and duodenum. Stages of development.

18. Gastrointestinal bleeding. Frequency of occurrence.

19. Abdominal injuries.

20. Abdominal hernias. Favourable factors.

21. Intestinal obstruction.

22. Acute appendicitis.

23. Acute pancreatitis. Favourable factors. Classification.

24. Acute cholecystitis.

25. Kidney stone disease.

26. Diseases of the prostate gland (adenoma, prostatitis).

27. Bladder inflammation.

28. Prolapse of the rectum.

29. Tumors of the rectum.

**3.4. Individual tasks** (a list approved at the department meeting with the determination of the number of points for their completion, which can be added as incentives). At the student's request, during the study of relevant topics, he can perform individual work, which is carried out outside of class time and, upon successful completion, is additionally evaluated by the teacher.

The approximate list of individual tasks:

1. Conducting questioning of the demonstrative patient, his general examination and examination of the head, neck, limbs, thorax, and abdomen, highlighting the main symptoms and syndromes of the disease.

2. Evaluation of biochemical, clinical, and immunological studies in demonstrable patients, processing of the received data and presentation in class.

3. Compare clinical manifestations with the results of additional examination methods and make a preliminary diagnosis; participate in conducting instrumental research: esophagostroduodenoscopy, colonoscopy, proctoscopy, and anoscopy in demonstrable patients with data processing and presentation at the class.

4. Carrying out a physical and instrumental examination of a demonstrative patient with the preparation of a review of the scientific literature on the investigated case.

5. Work with literature and other sources of information and preparation of an abstract report on modern methods of examination of patients in the clinic of surgical diseases.
6. Working with literature and other sources of information and preparing an abstract report on the peculiarities of syndromic diagnosis of a disease with a typical course, chosen at the student's request.

### **3.5. The rules for challenging the assessment.**

In accordance with the general provisions and orders of KhNMU.

## **4. POLICY OF DISCIPLINE**

The requirements of the discipline (the system of requirements and rules that the teacher presents to students of higher education when studying the discipline). In order to achieve the learning goals and successfully complete the course, it is necessary: to join the work from the first day; regularly attend lectures; read the material in advance, before considering it in a practical session; not be late or miss classes; come to the department dressed in a medical gown, have a change of shoes, have a stethoscope, a notebook, and a pen with you; perform all the necessary tasks and work every day; be able to work with a partner or as part of a group; ask for help and get it when you need it. Written and homework assignments must be completed in full and on time.

Academic mobility and interchangeability of credits (volume of 1 credit 30 hours) are provided. Students can discuss various tasks, but their implementation is strictly individual.

Attendance of classes and behavior. Attendance of lectures and practical classes by students is mandatory. Students are not allowed to be late for lectures and practical classes.

During the lecture class, students are recommended to keep a summary of the class and maintain a sufficient level of silence. Asking questions to the lecturer is absolutely normal.

The use of electronic gadgets is allowed only with the permission of the teacher. Copying, use of various software tools, hints, and use of a mobile phone, tablet or other electronic gadgets during class are not allowed.

Recommendations for successful completion of the discipline (activity of students of higher education during practical classes, performance of the required minimum of academic work).

Practical classes include: in active participation during the discussion in the audience, students should be ready to understand the material in detail, ask questions, express their point of view, and discuss.

During the discussion, the following are important:

- respect for colleagues,
- tolerance for others and their experiences,
- receptivity and impartiality,
- the ability to disagree with an opinion, but respect the personality of the opponent,

- thorough reasoning of one's opinion and the courage to change one's position under the influence of evidence,
- self-expression, when a person avoids unnecessary generalizations, describes his feelings and formulates his wishes based on his own thoughts and emotions,
- mandatory acquaintance with primary sources.

A creative approach in its various manifestations is welcome. Students are expected to be interested in participating in the city, all-Ukrainian and international conferences, competitions and other events related to the subject profile.

Incentives and penalties (extra points for conferences, scientific research, edits, tips, participation in surveys). Assessment of individual student tasks is carried out under the conditions of the performance of the teacher's tasks (an abstract report at a practical session, a report with a presentation at a practical session, a report at scientific and practical conferences of the department, university, writing theses, articles, participation in the All-Ukrainian Olympiad). Points (up to 10) are added as incentives.

Safety equipment. In the first lesson of the course, the basic principles of labour protection will be explained by means of appropriate instruction. Everyone is expected to know where the nearest exit to the audience is, where the fire extinguisher is, how to use it, etc.

The procedure for informing about changes in the syllabus, etc. The development, updating and approval of the syllabus of the academic discipline are carried out every academic year. Mandatory placement on the website of KhNMU in the profile of the "Medicine" educational program by August 30 of the current academic year for the next academic year.

## **5. ACADEMIC INTEGRITY**

Academic integrity policy (including liability for academic integrity violations). Observance of academic integrity by students of education involves:

- Independent performance of educational tasks, tasks of current and final control of learning results (for persons with special educational needs, this requirement is applied taking into account their individual needs and capabilities);
- Links to sources of information in the case of using ideas, developments, statements, and information;
- Compliance with the legislation on copyright and related rights;
- Provision of reliable information about the results of one's own (scientific, creative) activities, used research methods and sources of information.

The Department of Surgery No. 2 supports zero tolerance for plagiarism. Students are expected to be willing to constantly improve their awareness of academic writing. In the first classes, information activities will be held on what exactly is considered plagiarism and how to correctly conduct research and scientific search.

Policy regarding persons with special educational needs. Students with special needs must meet with the teacher or notify him before the start of classes, the head of the group can do this at the student's request.

## 6. RECOMMENDED LITERATURE

### The basic literature:

1. Surgery. Part I. Emergency surgery of the abdominal cavity: textbook for medical students I.A.Kryvoruchko, V.M.Lisovyi, V.V.Boyko, O.A.Tonkoglas. – Kharkiv: KhNMU, 2017. -194 p.
2. Surgery. Part II. Surgical gastroenterology and proctology: : textbook for medical students. / I.A.Kryvoruchko, V.M.Lisovyi, V.V.Boyko, O.A.Tonkoglas. – Kharkiv: KhNMU, 2018. -290 p.
3. Thoracic, cardiovascular, endocrine surgery. Textbook for Vth year students of medical faculties. / Authors: V.V. Boiko, L.I. Goncharenko, P.N. Zamyatin, Yu.B. Grigorov, I.A. Taraban at alias; edited by V.V. Boiko. – Kharkov, 2017. – 400 p.
4. P. Labas, V. Boyko, P. Zamyatin, I. Polivenok, O. Buchneva, D. Zamyatin. Surgery of heart injuries. The features of modern doctrine. Bratislava – Kharkiv, publisher Comenius University in Bratislava, 2018. – 247 p
5. General Surgery: textbook / S.D. Khimich, M.D. Zheliba, V.P. Andryushchenko et al: Medytsyna, 2019. – 536 p.
6. Emergency surgery : textbook for the 6th year students of medicine / authors: V. V. Boyko, V. M. Lisovyi, V. A. Kapustnyk, L. Y. Goncharenko, I. A. Taraban, V. V. Makarov [et al.] ; eds.: V. V. Boyko, V. M. Lisovyi. – Kharkiv : KNMU, 2019. – 512 p.

### The additional literature:

1. History of Medicine : methodical instructions for students to the practical lesson on the topic “Medicine in the Middle Ages” for the preparation of students in specialties: 222 “General Medicine”, 221 “Dentistry” / Compiled by V. Ognev, O. Semenenko, N. Martynenko, O. Myakyna. – Kharkiv : KhNMU, 2018. – 15 p.
2. First aid: a textbook / ed. VP Андрющенко. Yu.F.Kushta, D.V.Andryushchenko - L: LNMU, 2017. - 351 p.
3. Kasevich NM General patient care and medical manipulation techniques: textbook. for students. higher honey. textbook lock I-III levels of accreditation / ed. V.I. Litvinenko. - 7th ed., Corrected. - K., 2017. - 424 c.
4. Patient care and medical manipulation techniques: textbook /L.S. Savka, L.I. Razinkova, OI Kotzar; for order. - 3rd ed., Revised. and add. - K ., 2017. - 600 p.
5. Perry, A. S. Potter, P. (2017). Clinical Nursing Skills & Techniques (9<sup>th</sup> ed.). St. Louis: Mosby: Elsevier.

6. M. D. Lewis, S.L. Dirksen, S.R. Heitkemper, M.M. Bucher (2017). Medical-surgical nursing: Assessment and management of clinical problems (10th ed.). St Louis: Elsevier: Mosby.
7. Acute Care Surgery / L.D. Britt, C.B. Andrew, E. B. Peitzman: Wolters Kluwer, 2018. – 960 p
8. Bailey & Love's Short Practice of Surgery / Norman Williams, P Ronan O'Connell, Andrew Mc Caskie: CRC Press, 27th Edition, 2018. – 1632 p.
9. Justin B. S., Dimick M.D., Gilbert R. F., Upchurch Jr. M.D., Christopher J. Sonnenday M. D., Lillian S. Kao - Clinical Scenarios in Surgery (2018)
10. Traumatology and Orthopedics / ed.: G. G. Golka, O. A. Burianov, V. G. Klimovitsky : textbook for students of higher medical schools IV level of accreditation. - Vinnytsia : Nova Knyha , 2018. - 400 p.

## 7. INFORMATION RESOURCES

1. Link to the academic discipline page on MOODLE:  
<https://distance.knmu.edu.ua/course/view.php>
2. Adapted information from the American College of Surgeons. Resources for the optimal care of the injured patient. Chicago, IL: American College of Surgeons; 2019.  
<https://www.cdc.gov/mmwr/preview/mmwrhtml/rr6101a1.htm>
3. The KhNMU repository: <https://repo.knmu.edu.ua/handle/123456789/28848>  
<https://repo.knmu.edu.ua/handle/123456789/17964>
4. Law of Ukraine "On Higher Education" dated July 1, 2014 No. 1556-VII (Article 16): [http://search.ligazakon.ua/l\\_doc2.nsf/link1/T141556.html](http://search.ligazakon.ua/l_doc2.nsf/link1/T141556.html).
5. Order of the Ministry of Education and Culture of Ukraine dated December 5, 2018. No. 1344. "On the approval of the standard of higher education in speciality 223 "Nursing" for the first (bachelor's) level of higher education" [osvita/zatverdzeni%20standarty/12/21/223-medsestrinstvo-bakalavr.pdf](http://osvita/zatverdzeni%20standarty/12/21/223-medsestrinstvo-bakalavr.pdf).  
<https://mon.gov.ua/storage/app/media/vishcha>
6. Order of the Ministry of Health of Ukraine dated 01.06.2013 "On approval of protocols of a nurse (paramedic, midwife) for patient care and performance of basic medical procedures and manipulations."  
<https://zakon.rada.gov.ua/go/v0460282-13>.
7. Register medical and technological documents. <https://dec.gov.ua/mtd/home/>
8. Industry standards and clinical guidelines.  
[https://dec.gov.ua/cat\\_mtd/galuzevi-standarti-ta-klinichni-nastanovi/](https://dec.gov.ua/cat_mtd/galuzevi-standarti-ta-klinichni-nastanovi/)
9. Website of the National Library of Ukraine named after V. I. Vernadsky.  
<http://www.nbu.gov.ua/>
10. Published on Mar 17, 2017 <https://issuu.com/novaknyha/docs/>
11. Ukrainian medical portal "Ambulance". URL: <http://www.dopomoha.kiev.ua/>.
12. Ukrainian medical catalogue. URL: <http://ukrmed.org.ua/>.
13. World Health Organization (World Health Organization).  
URL: <http://www.who.int/ru/>.
14. Ministry of Health of Ukraine. URL: <http://www.moz.gov.ua>.

15. Center for Medical Statistics of the Ministry of Health of Ukraine.  
URL: <http://medstat.gov.ua/ukr/main.html> 15.
16. Journal of the National Academy of Medical Sciences of Ukraine.  
URL: <http://journal.amnu.gov.ua>.
17. Normative and directive documents of the Ministry of Health of Ukraine.  
URL: <http://www.mozdocs.kiev.ua/>

## **8. MISCELLANEOUS**

### **USEFUL LINKS:**

Provisions on the prevention, prevention and settlement of cases related to sexual harassment and discrimination at  
KhNMU [http://files.knmu.edu.ua:8181/upload/redakt/doc\\_uchproc/polog-sex.doc](http://files.knmu.edu.ua:8181/upload/redakt/doc_uchproc/polog-sex.doc)  
Regulations on academic integrity and ethics of academic relationships at Kharkiv National Medical University  
[http://files.knmu.edu.ua:8181/upload/redakt/doc\\_uchproc/polog\\_ad\\_etyka\\_text.pdf](http://files.knmu.edu.ua:8181/upload/redakt/doc_uchproc/polog_ad_etyka_text.pdf)  
The procedure for conducting classes on an in-depth study by students of the Kharkiv National Medical University of certain disciplines beyond the scope of the curriculum [http://files.knmu.edu.ua:8181/upload/redakt/doc\\_uchproc/nak-poriad-pogl-vyv-dysc.docx](http://files.knmu.edu.ua:8181/upload/redakt/doc_uchproc/nak-poriad-pogl-vyv-dysc.docx)  
Regulations on the Commission on Academic Integrity, Ethics and Conflict Management of  
KhNMU [http://files.knmu.edu.ua:8181/upload/redakt/doc\\_uchproc/polog\\_komis\\_ad\\_text.pdf](http://files.knmu.edu.ua:8181/upload/redakt/doc_uchproc/polog_komis_ad_text.pdf)  
Regulations on recognition of the results of non-formal education at the Kharkiv National Medical University  
[http://files.knmu.edu.ua:8181/upload/redakt/doc\\_uchproc/polog\\_neform\\_osv.pdf](http://files.knmu.edu.ua:8181/upload/redakt/doc_uchproc/polog_neform_osv.pdf)

### **INCLUSIVE EDUCATION:**

[http://www.knmu.kharkov.ua/index.php?option=com\\_content&view=article&id=7108%3A2021-03-10-14-08-02&catid=12%3A2011-05-10-07-16-32&Itemid=33&lang=en](http://www.knmu.kharkov.ua/index.php?option=com_content&view=article&id=7108%3A2021-03-10-14-08-02&catid=12%3A2011-05-10-07-16-32&Itemid=33&lang=en)

### **ACADEMIC HONESTY:**

[http://www.knmu.kharkov.ua/index.php?option=com\\_content&view=article&id=2520%3A2015-04-30-08-10-46&catid=20%3A2011-05-17-09-30-17&Itemid=40&lang=en](http://www.knmu.kharkov.ua/index.php?option=com_content&view=article&id=2520%3A2015-04-30-08-10-46&catid=20%3A2011-05-17-09-30-17&Itemid=40&lang=en)  
[http://files.knmu.edu.ua:8181/upload/redakt/doc\\_uchproc/kodex\\_AD.docx](http://files.knmu.edu.ua:8181/upload/redakt/doc_uchproc/kodex_AD.docx)