



**SYLLABUS**  
**of the academic discipline**  
**«SURGERY NURSING »**

<b>Branch of knowledge</b>	22 Health Care
<b>Specialty</b>	223 Nursing
<b>Educational and professional program</b>	Nursing
<b>Academic degree</b>	Bachelor's degree
<b>Discipline status</b>	<b>Normative/ Elective discipline</b>
<b>Group</b>	<b>II MCI-21</b>
<b>The language of instruction</b>	English
<b>The department to which the discipline is assigned</b>	
<b>Teacher of the discipline</b>	
<b>Teacher's contact information</b>	E-mail:
<b>Consultations</b>	According to the consultation schedule. Online consultations are possible via ZOOM, Meet or similar resources. To agree on the time of online consultations, students should write to the teacher's e-mail or call.
<b>Page of the course</b>	
<b>Description of the academic discipline</b>	The amount of credits –14 Total hours – 420 Modules – 5 The year of training – II,III Semester – 3,4,5,6 Lectures – 42 Practical classes – 172 Self-study – 206
<b>Short annotation of the course</b>	<b>The academic discipline</b> is studying surgical diseases and injuries that require urgent surgical care; algorithms for providing emergency care in case of severe, life-threatening conditions at the pre-hospital stage and in various health care facilities, including outpatient clinics
<b>Purpose and goals of the course</b>	The purpose of studying the academic discipline “SURGERY NURSING ” is training of medical nurses for independent work in health care institutions; maintaining knowledge of diagnostic criteria for emergency surgical conditions for providing qualified first aid.  According to the requirements of educational program, students should <b>know</b> elements of surgical activity (asepsis, antiseptics); - principles of disinfection of premises; - methods of sterilization of instruments, linen, equipment, care items;

- rules for washing the hands of medical personnel before surgery and manipulations;
- groups of general and special instruments and rules for their use;
- rules for patient preparation for examinations;
- principles of patient preparation for surgery;
- principles of prevention of postoperative complications;
- rules of blood collection and hemotransfusions;
- the basic principles of preparing the operating room and dressing room for work;
- basic principles of examination of a surgical patient;
- principles of assessment of the patient's general condition, diagnosis of injuries and surgical diseases;
- first aid algorithms;
- basics of disease prevention;
- basic principles of care for seriously ill patients and prevention of complications;
- basic principles of communication with patients, patients' relatives;
- rules of ethics and deontology in professional activity;

***be able to:***

- prepare the operating room and dressing room for work;
- prepare the patient for diagnostic and therapeutic manipulations;
- conduct psychological preparation of the patient before manipulations and surgery;
- carry out premedication before planned and emergency operations;
- provide care for the patient in the postoperative period;
- prevention of bedsores and other complications;
- assess the general condition of the patient;
- diagnose conditions that require emergency care
- to provide emergency care for conditions threatening the patient's life;
- carry out immobilization of the damaged part of the body;
- apply soft bandages to different parts of the body;
- to determine the suitability of blood for transfusion, the blood group of the donor and the recipient;
- prepare the patient for hemotransfusion;
- conduct tests for individual and biological compatibility of blood;
- assemble sets of tools for operations on different parts of the body;
- bandage;
- carry out hand treatment before surgery and manipulation;
- put on sterile clothes for yourself and the surgeon;
- take care of seriously ill patients;
- take care of patients with a tracheostomy;
- take care of patients with gastrostomy, colostomy, cystostomy;
- keep medical documentation;
- perform manipulations as prescribed by the doctor;
- communicate with patients, their relatives and colleagues, observing the principles of ethics and deontology;
- perform professional duties in the operating room and dressing room;
- assess the general condition of the patient, local changes, diagnose surgical diseases and emergency conditions;

**Program learning outcomes**

PLO 01.

**Course policy**

**Adherence to the principles of academic integrity.**

No forms of violation of academic integrity are tolerated. It is expected that students' works should be independent, with their own original research or thinking. For people with special educational needs, this requirement is applied to their

individual needs and abilities. The use of external sources, except dictionaries, is prohibited during the performance of written tests, module works, testing, during preparation for the answer at the exam. Detection of signs of violation of academic integrity in student's written work is the basis for its non-enrollment by the teacher.

**Adherence to the principles and norms of ethics and professional deontology.** During classes students act from the positions of academic integrity, professional ethics and deontology, follow the rules of internal regulations of the Academy. During the fight against the COVID-19 pandemic students should follow all the guidelines of the anti-epidemiological regime: wear masks, adhere to social distance, use antiseptics. Students should behave tolerantly and friendly in communication between themselves and teachers.

**Attending classes.** Students should attend all practical classes of the course and inform the teacher about the inability to attend classes.

**Deadline policy.** Students are required to adhere to the deadlines determined by the course in general and all types of work in particular.

**The procedure of working off missed classes.** Students can work off classes which were missed without a significant reason in accordance with the schedule of working off and consultations. Classes which were missed for a significant reason can be worked out at any time convenient for the teacher.

Reassignment of the final grade in order to increase it is not allowed, except situations provided by the regulations of the Academy, or non-appearance for the final control for a significant reason.

**STRUCTURE OF THE COURSE  
TOPICS OF LECTURES**

No .	Name of the topic	Amount of hours
<b>III SEMESTER</b>		
1.	Basic Concepts of Medical-Surgical Nursing. Introduction to the surgical patient	2
2	Pre-operative assessments and preparation. Pre-operative optimization	2
3	Intra-operative care. Basics of anesthesiology	2
4	Ward post-operative care	2
	<b>Total:</b>	<b>8</b>
<b>IV SEMESTER</b>		
5	Pain management	2
6	Nutrition and hydration	2
7	Transfusion of blood products	2
8	Wound care.	2
9	Infection: prevention, control, and treatment	2
10	Post-operative complications	2
	<b>Total:</b>	<b>12</b>
<b>V SEMESTER</b>		
11	Surgical nursing procedures	
12	Upper gastrointestinal surgery	
13	Hepatobiliary surgery	
14	Colorectal and lower gastrointestinal surgery	
15	Trauma and orthopaedics . Mechanisms of injury. Assessment of the trauma patient	
16	Chest injuries	
	<b>Total:</b>	<b>12</b>
<b>VI SEMESTER</b>		
17	Head injury. Spinal injury	
18	Musculoskeletal injuries	
19	Vascular surgery	
20	Urology and renal surgery	

21	Neurological and spinal surgery	
	<b>Total</b>	<b>10</b>
		<b>42</b>
<b>TOPICS OF PRACTICAL CLASSES</b>		
<b>No</b>	<b>Name of the topic</b>	<b>Amount of hours</b>
<b>III SEMESTER</b>		
1	Prevention of infection transmission. Hand washing	4
2	Respiratory examination	4
3	Cardiovascular examination	4
4	Abdominal examination	4
5	Prevention of infection transmission Putting on sterile and non- sterile clothes, gloves, masks	4
6	<b>Modul</b>	4
	<b>Total</b>	<b>24</b>
<b>IV SEMESTER</b>		
7	Care of patient who vomiting	4
8	Care of patient during bladder irrigation	4
9	Rectal examination and stoma care	4
10	Positioning the patient in different positions	4
11	Care of unconscious patients or patients with an airway	4
12	Care of catheterized patients. Control of the volume of liquids	4
13	Patient care during hemotransfusion	4
14	Care of a patient with pain syndrome	4
15	<b>Modul</b>	4
	<b>Total</b>	<b>36</b>
<b>V SEMESTER</b>		
16	Care of a patient with a tracheostomy	4
17	Cardiopulmonary resuscitation	4
18	Cardiopulmonary resuscitation	4
19	Patient preparation for laboratory examinations	4
20	Patient preparation for instrumental examinations	4
21	Pulse measurement	4
22	Electrocardiogram	4
23	Neurological observation and assessment	4
24	<b>Modul</b>	4
25	Administration of drugs in different ways	4
26	Caring for the patient in the anaesthetic room	4
27	Preparing the patient for surgery	4
28	Caring for the patient while undergoing surgery	4
28	Surgical instruments	4
29	Care of patients with bleeding	4
30	Stop bleeding in different ways	4
31	Applying a bandage on the head and chest	4
32	Applying a bandage on the limb	4
34	<b>Modul</b>	4
	<b>Total</b>	<b>76</b>
<b>VI SEMESTER</b>		
35	Care of patients with wounds	4
36	Care of a patient with surgical infection	4

37	Care of patients with limb trauma	4
38	Care of a patient with chest traum	4
39	Care of a patient with a head and spinal injury	4
40	Care of a patient with vascular deseases	4
41	Care of a patient with urology and renal deseases	4
42	Care of a patient with neurological and spinal deseases	4
43	<b>Modul</b>	4
	<b>Total</b>	<b>36</b>
	<b>Total</b>	<b>172</b>

### TOPICS FOR STUDENT'S SELF-STUDY

No.	Name of the topic	Amount of hours
<b>III SEMESTER</b>		
1	The latest antiseptics	4
2	Methods of determining the degree of blood loss	4
3	Bacteriological control in the operating room	4
4	Igorithm of emergency care for parenchymal bleeding	4
5	Types of local anesthesia	4
6	Principles of transport immobilization with improvised means	4
7	Types and indications for the use of special bandages	4
8	Classification of infusion solutions	4
9	Preparation of patients for special examination methods	4
10	Algorithm of emergency care for poisoned wounds	4
	<b>Total</b>	<b>40</b>
<b>IV SEMESTER</b>		
11	Features of emergency care for chemical and radiation burns	4
12	Peculiarities of the anti-epidemic regimen for acute anaerobic infection	4
13	Modern methods of diagnosis of malignant tumors	4
14	Peculiarities of the development of skull bones in genetic syndromes	4
15	Neurological disorders in craniocerebral trauma	4
16	Compile an algorithm of emergency care for nosebleeds	4
17	Algorithm of emergency care for chemical burns of the esophagus	4
18	Algorithm for providing emergency care for bleeding in the neck	4
19	Patient routes, level hospital care.	4
20	Trauma centers of primary and secondary level.	4
21	Structure and functionality of hospital departments of emergency medical care	3
22	Anatomy of the chest, anatomy and physiology of the respiratory system. Gas exchange	2
	<b>Total</b>	<b>45</b>
<b>V SEMESTER</b>		
23	Methods of assessment of respiratory function	4
24	Anatomy and physiology of the abdomen. Innervation and pain syndrome.	4
25	Clinical symptoms of sudden abdominal pain syndrome, their explanation	4

26	Operative and non-operative treatment of abdominal injuries	4
27	Bacteriological and morphological research of physiological and pathological fluids and substrates	4
28	Make a table of differential diagnosis of inflammatory diseases of the abdomen	4
29	Risk factors and methods of diagnosis of kidney cancer	4
30	Features of diagnosis and treatment of cryptorchidism	4
31	Early diagnosis of congenital dislocation and dysplasia of hip joints	4
32	Methods of prevention of curvature of the spine in childhood and adolescence	4
33	Emergency care for acute arterial thrombosis	4
34	Intraosseous and intraarterial anesthesia	4
35	Cardiopulmonary and cerebral resuscitation at the prehospital stage in children (BLS)	4
36	Modern methods of diagnosis of acute heart failure	4
37	Catheterization of central veins: indications, instruments, complications	4
38	Hemodialysis. Nursing care of patients with acute renal failure	3
39	Features of diagnosis of hemorrhagic and ischemic strokes	4
40	Convulsive syndrome in children	3
	<b>Total</b>	<b>70</b>
	<b>VI SEMESTER</b>	
41	The technique of transferring the victim to the recovery position	4
42	Responsibilities of a nurse in the intensive care unit	4
43	Medical documentation of a nurse in the intensive care unit	4
44	Respiratory insufficiency by degree of severity	4
45	Criteria for evaluating the cardiovascular system	4
46	APACHE-II patient severity rating scale	4
47	Scales for assessing consciousness AVPU and GCS (Glasgow)	4
48	Pulse oximetry: indications, measurement technique, norm	4
49	The main types of laboratory research	4
50	Cardioscope: indications for use, main indicators of monitoring (make a summary).	4
51	Inflammatory diseases of abdominal organs	4
52	The technique of determining the victim's consciousness and restoring the respiratory tract	4
53	Nutrition of patients after surgery	3
	<b>Total</b>	<b>51</b>
	<b>Total</b>	<b>206</b>

**List of recommended  
literature**

*Basic sources:*

1. Brunner, L. Brunner & Suddarth's Textbook of Medical-Surgical Nursing, 2019
2. Craven, F. Procedure Checklists for Fundamentals of Nursing, 2013
3. De Wit, S. Medical-surgical nursing: concepts and practice, 2017
4. Dougherty, L. The Royal Marsden Manual of Clinical Nursing Procedures, 2016
5. Doyle, G. Clinical Procedures for Safer Patient Care, 2015
6. Ernstmeyer, K. Open RN Nursing Skills by Chippewa Valley Technical College, 2021

**Additional sources:**

1. Harding, M. Lewis's Medical-Surgical Nursing, 2020
2. Lewis, S. Medical-Surgical Nursing: Assessment and Management of Clinical Problems, 2014
3. Lynn, P. Taylor's Handbook of Clinical Nursing Skills, 2011
4. Oxford Handbook of Surgical Nursing, 2016
5. Perry, A. Mosby's Pocket Guide to Nursing Skills & Procedures, 8 ed., 2015
6. Potter, P. Fundamentals of nursing, 2017
7. Swearinge, P. All-in-one nursing care planning resource, 2016

**Current and final control**

**Teaching methods**

During the educational process the following forms and methods of teaching are used: practical classes, individual tasks, student's individual work, consultations, etc.  
 In case of distance learning mode, the learning environment MOODLE, or Google Classroom are used. Practical classes are conducted by means of ZOOM. Current communication between a teacher and students can also be performed by means of e-mails or Viber.

**Necessary equipment**

**In normal training mode.** Studying of the course involves joining each student to the learning environment MOODLE, or Google Classroom.  
**In the distance learning mode during quarantine,** the study of the course additionally involves joining each student to the programs ZOOM, or Meet (for classes in video conferencing). In this case, the student must take care of the quality of Internet access.

**Assessment criteria**

**Assessment scale: national and ECTS**

On a 100-point scale	On a national scale	On the ECTS scale
<b>90-100</b>	<i>Excellent</i>	<b>A</b>
<b>80-89</b>	<i>Good</i>	<b>B</b>
<b>70-79</b>	<i>Good</i>	<b>C</b>
<b>60-69</b>	<i>Satisfactory</i>	<b>D</b>
<b>51-59</b>	<i>Satisfactory</i>	<b>E</b>
<b>35-50</b>	<i>Unsatisfactory with the possibility of re-passing</i>	<b>FX</b>
<b>0-34</b>	<i>Unsatisfactory with compulsory re-course of the discipline for the</i>	<b>F</b>



**List of questions for final control**

1. Surgical operation, Types of surgical interventions.
2. Peculiarities of preparation for surgery of children and the elderly.
3. Regulations on the operating unit, its structure and regime zones, sanitary and hygienic requirements.
4. Peculiarities of work in the operating room. Functional duties. Rules of conduct in the operating room.
5. Preoperative period. Its purpose and task. Peculiarities of preparing the patient's organs and systems for planned surgery.
6. Postoperative period. Its duration and course options. Assessment of the patient's condition after surgery.
7. Complications from organs and organ systems in the postoperative period.
8. Desmurgia, bandage, bandage. Classification of dressings.
9. Showings. Overlay rules and requirements
10. Transport immobilization. Types of transport tires. Rules for applying to different parts of the body.
11. General anesthesia, its types and ways of introducing narcotic substances.
12. Stages of inhalation anesthesia. Anesthetic devices and tools for anesthesia.
13. Complications during and after general anestesi
14. Patient care during and after anesthesia.
15. Non-inhalation anesthesia. Its types, methods of administration of narcotic drugs.
16. Local anesthesia. Its types.
17. Local anesthetics, application features. Possible complications.
18. Bleeding, blood loss. Causes of occurrence.
19. Classification of bleeding.
20. Problems of patients with bleeding.
21. Preparation of patients for blood transfusion. Carrying out blood tests for compatibility.
22. Complications during transfusion of blood and its preparations, their prevention.
23. Complications of a mechanical nature and their prevention.
24. Reactive complications and their prevention.
25. Infectious complications and their prevention.
26. Peculiarities of patient care after blood transfusion, its components, blood substitutes. Documentation management.
27. Clean and purulent wounds.
28. Types of wound healing. Their characteristics.
29. Breast tumors. Classification. Clinical symptoms. Diagnostics. Treatment.
30. Dyshormonal hyperplasia of the mammary gland. Reasons for development.
31. Wounds. Classification of wounds. Features of emergency care, treatment and care.
32. Trauma, traumatism. Classification of injuries. Types of traumatism.
33. Injury prevention.
34. Dislocations, favorable factors, classification.
35. Bone fractures. Favorable factors. Classification. Emergency care, treatment and care.
36. Traumatic shock. Mechanism of occurrence. Degrees of difficulty. Emergency aid. Treatment.
37. Syndrome of prolonged compression. Pathogenic factors of development
38. Periods of illness.
39. Brain injuries. Types of injuries. Emergency aid. Treatment.
40. Skull bone injuries, their types, emergency care and treatment.
41. Closed injury of the chest

<b>Survey</b>	A questionnaire to assess the quality of the course will be provided upon completion of the course