

Course Syllabus - Surgery and Surgical Nursing

General data

Department	Department of Nursing			
Study Program	Nursing			
Course Title	Surgery and Surgical Nursing			
Course / group of courses	Surgery and Surgical Nursing			
Course Code	257493	Erasmus Code		
ECTS Credits	7,5	Course Type	Mandatory	
Year of study	3rd	Semester	5th	
The form of classes	Number of hours	ECTS	Semester	Form of crediting
W	70	3,5	5	exam
CM	120	4	5	passing with grade
SK	30	0	5	passing
Coordinator	Elżbieta Marcisz, MSN, RN			
Language of instruction	English			

Explanations:

The form of classes: W – lecture, CM - specialized medical exercises, SK – self-study

Substantive data

Prerequisites			
Knowledge, skills and competencies in the field of anatomy, physiology, pathology, basics of nursing, physical examination.			
Detailed learning outcomes			
Lp.	A student who has passed the course knows and understands/is able to/is ready to:	Effect code for the field of study	Method of verifying learning outcome
1	risk factors and health threats in patients of different ages;	PL1_D.W.01	written test, exam, oral presentation
2	etiopathogenesis, clinical symptoms, course, treatment, prognosis and principles of nursing care for patients in selected diseases;	PL1_D.W.02	observation of task performance, exam, oral presentation
3	principles of diagnosing and planning patient care in surgical nursing	PL1_D.W.03	written test, exam, oral presentation, practice documentation
4	types of diagnostic written tests and principles of ordering them;	PL1_D.W.04	written test, exam, oral presentation, practice documentation
5	principles of preparing patients of various ages and health conditions for diagnostic written tests and procedures, as well as principles of care during and after these written tests and procedures;	PL1_D.W.05	observation of task performance, written test, exam, oral presentation

6	properties of drug groups and their effects on the patient's systems and organs in various diseases depending on age and health status, taking into account adverse effects, interactions with other drugs and routes of administration;	PL1_D.W.06	written test, exam, oral presentation practice documentation
7	nursing standards and procedures used in the care of patients of various ages and health conditions;	PL1_D.W.07	observation of task performance, written test, exam, oral presentation, practice documentation
8	patient's response to illness, admission and hospitalization;	PL1_D.W.08	exam, oral presentation, practice documentation
9	principles of organisation of specialist care (surgical and operating theatre);	PL1_D.W.10	exam, oral presentation
10	principles of patient nutrition, including dietary treatment, pre- and postoperative indications according to the comprehensive perioperative care protocol to improve treatment outcomes (Enhanced Recovery After Surgery, ERAS);	PL1_D.W.22	written test, exam, oral presentation, practice documentation
11	factors increasing perioperative risk;	PL1_D.W.23	written test, exam, oral presentation, practice documentation
12	principles of preparing a patient for an emergency and planned surgical procedure, in one-day surgery, and principles of patient care after the surgical procedure in order to prevent early and late complications;	PL1_D.W.24	observation of task performance, medical simulation, written test, exam, oral presentation, practice documentation
13	principles of care for patients with intestinal and urinary fistula;	PL1_D.W.25	exam, oral presentation, practice documentation
14	principles of patient observation after surgery, including basic and extended monitoring;	PL1_D.W.29	observation of task performance, written test, exam, oral presentation, practice documentation
15	methods of anesthesia and principles of post-anesthesia care;	PL1_D.W.30	observation of task performance, task performance written test, exam, oral presentation, practice documentation
16	methods and scales for assessing pain	PL1_D.W.32	observation of task performance, written test, exam, oral presentation, practice documentation
17	gather information, formulate a nursing diagnosis, establish goals and a nursing care plan, implement nursing interventions, and evaluate nursing care;	PL1_D.U.01	observation of task performance, activity assessment, practice documentation, oral statement
18	provide self-care counseling for patients of various ages and health conditions regarding diseases and addictions;	PL1_D.U.02	observation of task performance, practice documentation
19	conduct prevention of complications occurring in the course of diseases;	PL1_D.U.03	observation of task performance, practice documentation

20	organize the isolation of patients with infectious diseases in public places and at home;	PL1_D.U.04	observation of task performance
21	select the technique and methods of wound care, including applying dressings;	PL1_D.U.06	observation of task performance, medical simulation
22	select methods and means of wound care based on their classification;	PL1_D.U.07	observation of task performance
23	recognize complications after specialist diagnostic written tests and surgical procedures;	PL1_D.U.08	observation of task performance, practice documentation
24	administer oxygen to the patient on monitor his condition during oxygen therapy;	PL1_D.U.09	observation of task performance
25	prepare the patient physically and mentally for diagnostic written tests;	PL1_D.U.12	observation of task performance, practice documentation
26	document the patient's health situation, the dynamics of its changes and the nursing care provided, taking into account IT tools for data collection;	PL1_D.U.15	observation of task performance, activity assessment, practice documentation
27	teach the patient and their caregiver how to select and use nursing and rehabilitation equipment and medical products;	PL1_D.U.16	observation of task performance, medical simulation, oral statement
28	provide enteral nutrition (via a feeding tube and feeding tube) and parenteral nutrition to adults and children;	PL1_D.U.17	observation of task performance
29	recognize complications of pharmacological, dietary, rehabilitation and therapeutic-nursing treatment;	PL1_D.U.18	observation of task performance, practice documentation
30	care for a patient with an inwritten testinal fistula	PL1_D.U.19	observation of task performance, medical simulation, practice documentation
31	conduct a therapeutic conversation;	PL1_D.U.20	observation of task performance
32	conduct bedside rehabilitation and activation using elements of occupational therapy;	PL1_D.U.21	observation of task performance, medical simulation
33	provide information to members of the therapeutic team about the patient's health status;	PL1_D.U.22	observation of task performance, activity assessment, oral statement
34	assist the physician during diagnostic written tests;	PL1_D.U.23	observation of task performance
35	assess the level of pain, the patient's response to pain and its intensity, and apply pharmacological and non-pharmacological pain management;	PL1_D.U.24	observation of task performance, medical simulation
36	prepare and administer medications to patients in various ways, independently or on the orders of a physician;	PL1_D.U.26	observation of task performance
37	temporarily immobilize broken bones, dislocations and sprains and prepare the patient for transport;	PL1_D.U.28	observation of task performance
38	temporarily stop bleeding and hemorrhage;	PL1_D.U.29	observation of task performance
39	guided by the patient's well-being, respecting the dignity and autonomy of persons entrusted with care, showing understanding for differences in worldviews and cultures, and empathy in the relationship with the patient and his family;	PL1_K.01	observation of task performance, self-assessment

40	respect for patients' rights;	PL1_K.02	observation of task performance, medical simulation, self-assessment
41	independent and reliable performance of the profession in accordance with the principles of ethics, including compliance with moral values and obligations in the care of the patient;	PL1_K.03	observation of task performance, self-assessment
42	taking responsibility for the professional activities performed;	PL1_K.04	observation of task performance, self-assessment
43	recognizing one's own limitations in terms of knowledge, skills and social competences, as well as making self-assessment of educational deficits and needs.	PL1_K.07	observation of task performance, self-assessment

Methods used to achieve the intended learning outcomes (didactic methods)
practical methods, problem-based methods, independent work of students (self-study), e-learning
Grading criteria and verification of learning outcomes
<p><u>Knowledge:</u> assessment of practice documentation (assessment of the documentation of the patient's nursing process) examination (written exam in the form of a single-choice written test, multiple answer and open-ended questions) assessment of the written test (online written test) observation of task performance (direct observation of the student while performing nursing activities with the patient) assessment of task performance (performance of an individual or group task in a medical simulation) assessment of oral speech (assessment of a short or longer speech)</p> <p><u>Skills:</u> assessment of practice documentation (assessment of the documentation of the patient's nursing process) observation of task performance (direct observation of the student while performing nursing activities with the patient) assessment of activity (oral and written reports about the patient) assessment of task performance (performance of an individual or group task in a medical simulation) assessment of oral speech (assessment of a short or longer speech)</p> <p><u>Social competences:</u> observation of task performance (direct observation of a student performing nursing activities with a patient) self-assessment (student's assessment of their own skills or competencies) assessment of task performance (performance of an individual or group task in a medical simulation)</p>
Conditions for Passing
<p><u>Conditions for passing the lectures:</u> - attendance at the lectures - passing 2 partial written tests from the nursing part</p> <p>The subject ends with an exam in the 5th semester The condition for admission to the exam is passing the lectures and self-study The exam consists of: - from the clinical part - single-choice written test - from the nursing part - multiple-answer written test, single-answer and open-ended questions The final grade consists of the average of the grades from both parts. It is necessary to pass the clinical and nursing parts. The criteria for grading the written test are established in accordance with the Study Regulations</p> <p><u>Conditions for passing specialist (medical/clinical) exercises</u></p>

- passing seminar topics
- passing medical simulation classes
- passing the implementation of health education for the patient and/or family
- passing knowledge of pharmacotherapy
- passing the patient's nursing process for three days,
- maintaining patient documentation: fever card, observation card, fluid balance card and other applicable in the ward
- preparing and submitting a nursing report in oral and written form
- passing all learning outcomes for at least 60% of the maximum number of points
- 100% attendance at classes - in the event of an excused absence, practical classes must be completed at another date, previously agreed with the person conducting the classes

Conditions for passing self-education

Forms to choose from:

- a) participation in a scientific conference in the field of surgery/surgical nursing confirmed by a certificate along with a written report of a selected lecture from the conference.
- b) listening to the conference online and a summary of a selected lecture up to 2 years ago
- c) a summary of a scientific article in the field of surgery and surgical nursing - articles up to 2 years ago will be considered

Contents of the study programme (short version)

Lectures

Structure and disorders of water - electrolyte system. Pathophysiology of traumatic and organ surgery - causes, methods of diagnostics and therapeutic procedures. Infections in surgery. Nutritional therapy in surgery. Preparing patients for diagnostic written tests in surgery. Preparing patients for elective surgery and for operation for emergency reasons. One-day surgery. Postoperative complications (early / late; general / specific) - prevention, early detection and treatment. Planning nursing care of patients after surgery, considering the type of anesthesia and surgical techniques in a variety of disease entities.

Specialized classes

Perioperative nursing care of patients with surgical diseases. Preparing surgical patients to self-care after discharge from the hospital. Implementation of techniques and procedures used in the nursing practice at the surgical ward, participation in diagnosing and treatment of patients. Using clinical expertise in diagnosing health problems and nurturing patients with surgical diseases.

Contents of the study programme (full version)

Lectures

Surgery (clinical part, 30 hours, lectures can be held in e-learning form):

1. Structure of the body and water-electrolyte balance.
2. Injuries of the musculoskeletal system and craniocerebral injuries, diagnostic procedures and treatment methods.
3. First aid at the scene of an accident, procedures during transport, diagnostics and hospital treatment (reception room and ward).
4. Impact of trauma on the body: metabolic and hormonal response.
5. Acute abdominal diseases - diagnosis and treatment - qualification for surgical treatment.
6. Most common surgical diseases - diagnosis and treatment:
 - Purulent infections of the skin.
 - Peptic ulcer disease of the stomach and duodenum, its complications.
 - Cholelithiasis.
 - Acute pancreatitis.
 - Diseases of the large intestine.
7. Complications after surgical treatment - prevention and treatment.
8. Transplantological problems.

Surgical nursing (40 hours, lectures can be held in e-learning form):

1. Organization of surgical care for the patient. Tasks of a nurse in a therapeutic team in a surgical ward.
2. Organization of work in a surgical ward considering the prevention of hospital infections.
3. Proper nutritional and metabolic intervention in the perioperative period.
4. Preparation of patients for elective and emergency surgery (considering comorbidities, e.g. diabetes, obesity and others, and burdens, e.g. nicotine addiction and others). ERAS protocol. Prehabilitation. Premedication.
5. Preparation of patients for diagnostic written tests in surgery.

6. Planning nursing care for patients after surgery considering the type of anesthesia and surgical techniques. One-day surgery.
7. Basics of wound care in surgery
8. Postoperative complications (early/late; general/specific), prevention, early diagnosis and treatment.
9. Perioperative nursing care for patients with diseases of the digestive tract:
 - surgery of the stomach and duodenum, liver and bile ducts, pancreas, small and large intestine,
 - intestinal obstruction (including stomas), appendicitis,
 - abdominal hernias
10. Care for a patient with a urostomy
11. Perioperative nursing care for a patient with diseases of the thyroid gland.
12. Perioperative nursing care for a patient with diseases of the breast. Mastectomy.
13. Nursing patients with injuries to the musculoskeletal system: contusions, wounds, sprains, dislocations, fractures (surgical treatment - perioperative nursing care) and conservative: plaster cast, traction.
14. Perioperative nursing care for a patient with diseases of the veins. Conservative, pharmacological, surgical and surgical treatment.
15. Perioperative nursing care for a patient with diseases of the arteries and after amputation.
16. Nursing patients with burns and frostbite.

Specialized classes

The Ward of Surgery (104 hours):

1. Organization of classes in the ward of surgery. Discussion of regulations, work principles and applicable documentation.
2. Preparation of patients for elective and emergency surgery. ERAS protocol and prehabilitation. Planning nursing care for patients after surgery, considering the type of anesthesia and surgical techniques. One-day surgery.
3. Postoperative complications (early/late; general/specific) occurring after classical and laparoscopic procedures – prevention, early diagnosis and treatment. Nursing procedures.
4. Bleeding from the upper gastrointestinal tract. Conservative treatment. Endoscopic methods of stopping bleeding. Principles of blood therapy.
5. Acute appendicitis. Perioperative care for a patient being prepared for emergency surgery, taking into account specific complications.
6. Gallbladder and bile duct stones. Perioperative care for the patient being prepared for ERCP, for elective and emergency surgery, considering specific complications.
7. Acute pancreatitis. Conservative treatment. Perioperative care for the patient being prepared for surgery, considering specific complications.
8. Abdominal hernia. Perioperative care for the patient being prepared for elective and emergency surgery, considering specific complications.
9. Gastrointestinal obstruction. Perioperative care for the patient being prepared for surgery, considering specific complications. Care for the patient with an intestinal fistula
10. Thyroid diseases. Perioperative care for a patient being prepared for a planned surgical procedure, considering specific complications.
11. Breast diseases. Perioperative care for a patient being prepared for a planned surgical procedure, considering specific complications. Comprehensive rehabilitation and education.
12. Surgical vein diseases. Perioperative care for a patient being prepared for a planned surgical procedure, considering specific complications.
13. Lower limb amputation. Perioperative care for a patient being prepared for a planned and emergency surgical procedure, considering specific complications. Comprehensive rehabilitation and education.
14. Care for a patient with chest drainage. Prevention of complications, rehabilitation of a patient with drainage.
15. Summary of classes in the ward, discussion of assessment and self-assessment, orientation for further training.

Medical Simulation Center (16 hours)

1. Admission of the patient to the ward and preparation for emergency and planned surgery, preparation of the surgical field, compression therapy.
2. Admission of the patient from the operating theater and care for the patient immediately after the surgery.
3. Conducting bedside rehabilitation after surgery, early mobilization, wound stabilization, respiratory gymnastics.
4. Supply of the intestinal stoma after surgery.
5. Changing the dressing on the surgical wound, taking a swab from the wound.

Self-study

Written development of the forms provided by the instructor at the beginning of the course.

Forms to choose:

- a) participation in a scientific conference in the field of surgery/surgical nursing confirmed by a certificate along with a written report of a selected lecture from the conference;
- b) listening to the conference online and a summary of the selected lecture; valid for up to 2 years back
- c) summary of a scientific article in the field of surgery and surgical nursing - articles up to 2 years back will be considered

Bibliography

Kim Manley, Loretta Bellman Surgical Nursing Advancing Practice. Elsevier Health Sciences, 2020

Hinkle, Janice L, Kerry H. Cheever, Kristen Overbaugh Brunner & Suddarth's Textbook of Medical Surgical Nursing. Wolters Kluwer Health, 2021

Qualitative data

Assignment of classes/groups of classes to a scientific/artistic discipline	health sciences
Determine the number of ECTS points	
Student workload form (participation in classes, activity, preparation of report, etc.)	Student load [in hours]
Direct contact with the teacher: participation in classes – lecture (...) + exercises (...h) + consultations with the instructor (...h)	220
Preparation for laboratory, exercises, classes:	2
Preparation for written tests and exams	2
Individual student work with literature, lectures, etc.	1
Other	
Total student workload	225
Number of ECTS points	7,5
Activities requiring direct participation of an academic teacher (... h)	221
Practical classes (... h)	120