



Name of module/subject	Code
Surgery and surgical nursing	D

COURSE DESCRIPTION CARD		
Field of study Nursing	Training profile (general academic/practical) practical	Year / Semester II/3,4
Specialization Nursing	Subject offered in: Polish	Course (obligatory/optional) obligatory
No. of lecture hours: 70 No. of practical classes: 120 No. of professional training: 160 No. of self-studying hours: 25		ECTS 3 6 4 1
Cycle of studies: first	Form of studies (full time/weekends) Full time	Field of studies Medical sciences, health sciences and physical education
Status of subject in curriculum (basic, specialized, other) Basic sciences		(general academic, from other department) general academic
Unit providing the training: Institute of Health Sciences		
Lecturer in charge of the subject: Dr hab. Grażyna Bączyk, prof. PWSZ (Koordynator przedmiotu) Dr hab. Stanisław Malinger prof. PWSZ mgr Justyna Skrzyńska mgr Kamila Pryka		
Initial requirements in knowledge, skills, social competences:		
1	Knowledge:	1. The student knows the principles of nursing diagnosis and stages of the process nursing. 2. The student has a basic knowledge of the etiology, pathogenesis and clinical picture in diseases of the circulatory system, respiratory system, nervous system, digestive system, urinary tract, osteoarticular system, muscles, endocrine system and blood acquired in clinical classes in surgery. 3. Student has knowledge of anatomy, physiology, physical examinations, pharmacology.
2	Skills:	Student: 1. uses the skills acquired in the basic nursing classes, physical examinations, psychology and health promotion, 2. demonstrates the ability to communicate effectively, 3. demonstrates the ability to cooperate with members of the therapeutic team and patient and his family.
3	Social competences	Student: 1. is aware of his own limitations and knows when to ask experts. 2. demonstrates moral responsibility for the patient and the performance of tasks professional,

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		3. respects the dignity and autonomy of persons entrusted to care, 4. carries out tasks in a way that ensures its own safety and the environment, in this he adheres to the principles of work safety.
<p>The aim of the subject:</p> <ol style="list-style-type: none"> 1. The student knows the scope of nurse's activities in the surgical department depending on the diagnosis of the patient's clinical condition and the planned therapy method. 2. The student understands the issue of clinical diseases treated surgically and the rules of conduct in life-threatening conditions. 3. The student understands the distinctiveness of nursing elderly patients. 4. The student knows the issues in the field of nursing a patient treated surgically. 5. The student knows how to recognize the condition of the patient, monitor the functions of individual systems, prevent post-operative complications. 6. the student has the ability to conduct (nursing) in the basic diseases treated surgically. 7. The student has the ability to take care of the patient in the perioperative period in various diseases. 8. The student is able to assess the patient's nutritional status and energy needs, and to feed the enteral and parenteral methods. 9. The student is aware of the importance of independent action in the field of care for patients undergoing surgery. 10. The student is ready to increase his / her competences and skills. 11. The student knows and adheres to the principles of professional ethics and the card of patient's rights. 12. The student presents a professional attitude and diligently approaches his professional duties. 		
Training outcomes		
Knowledge As a result of the training course a student is able to:		Reference to field-related training outcomes
1	Explains etiopathogenesis, clinical symptoms, course, treatment, prognosis and nursing care in diseases: circulatory system (heart, vessels blood vessels), respiratory system, nervous system, system digestive (stomach, intestines, large glands, liver, pancreas, system urinary (kidney and bladder), osteoarticular system, muscles, endocrine system and blood.	D.W.3
2	Knows the rules for assessing the patient's condition depending on age.	D.W.4
3	Knows the principles of in internal medicine diagnosis in nursing medical, geriatric, surgical , pediatric, neurological, psychiatric, anesthesiology, obstetrics-gynecology and palliative care.	D.W.5
4	Knows the principles of planning care for patients depending on their age and condition health.	D.W.6
5	Knows the rules of preparation, care during and after research and treatments diagnostic tests performed on patients of different ages and conditions health.	D.W.7
6	Characterizes groups of drugs and their effects on the patient's systems and organs various diseases, depending on from age and health, with taking into account adverse reactions, drug interactions and routes application.	D.W.8

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7	Characterizes nursing techniques and procedures used in caring for sick, depending on his age and health condition.	D.W.9
8	Knows the principles of preparing the patient for self-care depending on age and health status.	D.W.10
9	Diversifies the patient's reaction to the disease and hospitalization, including age and health status.	D.W.11
10	Knows the role of a nurse when admitting a patient to hospital, taking into account the age and state of health of the patient.	D.W.12
11	Knows the specific rules for the organization of specialist care (geriatric, intensive medical, neurological, psychiatric and pediatric care, internal medicine, surgical, palliative and medical rescue system in Poland).	D.W.14
12	Knows the principles of nutrition of patients, including dietary treatment, pre-and postoperative indications.	D.W.30
13	Characterizes factors that increase perioperative risk;	D.W.31
14	Knows the principles of preparing the patient for surgery urgently and planned and in surgery one day.	D.W.32
15	Knows the directions of observation of the patient after the surgery, in order to prevention of early and late complications.	D.W.33
16	Lists the symptoms, characterizes the course and ways to proceed in specific disease entities treated surgically.	D.W.34
17	Explains the activities of the integrated system of ostomy care and others health associations.	D.W.35
18	Knows the types of diagnostic tests and has knowledge in the field of their commissioning.	D.W.52
Skills		Reference to field-related training outcomes
As a result of the training course a student is able to:		
1	Formulates a nursing diagnosis, goal, care plan and implements nursing interventions for a patient with a surgical disease.	D.U. 1
2	Assesses the patient's condition and differentiates ailments and symptoms of the disease regarding individual organs and systems based on physical examination and nursing interview.	D.U. 2
3	Monitors the patient's vital signs in acute surgical conditions.	D.U. 3
4	Recognizes nursing problems to improve the health status of care recipients of all ages and health conditions and identifies interfering factors.	D.U. 5
5	Determines opportunities for self-care and introduces the patient to self-care after surgery.	D.U. 8
6	Conducts health education in chronic surgical diseases.	D.U. 9

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7	Prevents complications in surgical diseases.	D.U. 10
8	Assesses the risk of pressure ulcer development and classifies them in patients with surgical conditions.	D.U. 11
9	Collects material for diagnostic tests.	D.U. 12
10	Assesses the patient's condition regarding complications after specialized diagnostic tests.	D.U. 13
11	Recognizes early and late postoperative complications. If need be, provides oxygen.	D.U. 14
12	Prepares and administers medication in a variety of ways, either on his/her own or at the physician's request.	D.U. 15
13	Prepares the patient for radiological, endoscopic, ultrasound and other examinations.	D.U. 17
14	Keeps medical records taking into account the dynamics of changes in the patient's health.	D.U.18
15	Assesses the nutritional status of the surgical patient.	D.U.19
16	Characterizes and differentiates dietary treatment depending on the patient's age and clinical condition.	D.U. 22
17	Delivers enteral nutrition: orally, through gastrostomy, gastric tube, gastrointestinal tract, infusion pumps, including rotary-peristaltic pumps. Conducts parenteral nutrition through peripheral and central punctures.	D.U. 23
18	Monitors the course and effects of enteral and parenteral feeding.	D.U. 24
19	Recognizes the complications of pharmacological, dietetic, rehabilitation and healing-care treatment.	D.U. 25
20	Cares for the patient with an intestinal stoma and urostomy.	D.U. 26
21	Cares for the patient with an intubation tube.	D.U. 21
22	Cares for the patient with a tracheotomy tube.	D.U. 21

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23	Conducts, documents and evaluates the patient's fluid balance.	D.U. 27
24	Assists the physician during diagnostic and therapeutic investigations.	D.U. 28
25	Keeps care records for patients on the surgical ward: <ul style="list-style-type: none"> • observation card, • nursing procedures card, • nursing reports book, • nosocomial infections register card, • bedsores prevention and treatment card, • information card with self-care recommendations. 	D.U. 29
26	Assesses the level of pain, the patient's reaction to pain and its severity, and applies the analgesic treatment in patients subject to an operation and in acute and chronic pain states.	D.U. 32
27	Adequately intervenes according to the type of nursing care.	D.U. 33
28	Can recognize indications for specific diagnostic tests and has the ability to issue referrals for specific diagnostic tests.	D.U. 34
29	Can prepare prescription forms of medicinal substances in consultation with a doctor or on his/her orders.	D.U. 35
Competences As a result of the training course a student is able to:		Reference to field-related training outcomes
1	Respects the dignity and autonomy of those cared for.	ABCD.K.1.
2	Systematically expands professional knowledge and skills.	ABCD.K.2.
3	Observes values, duties, and moral values in care.	ABCD.K.3
4	Demonstrates moral responsibility for man and for performing professional tasks.	ABCD.K.4.
5	Observes patients' rights.	ABCD.K.5.
6	Honestly and accurately performs professional duties.	ABCD.K.6.
7	Observes professional secrecy.	ABCD.K.7.
8	Interacts within the interdisciplinary team.	ABCD.K.8.
9	Resolve ethical dilemmas in accordance with the Code of Ethics.	ABCD.K.9.
10.	Enhances the development of his/her own and patients' subjectivity.	ABCD.K.10.
11.	Embraces empathy in relation to patients, their family and co-workers.	ABCD.K.11.

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Accepted grading criteria			
Local grade	Local definition	ECTS grade	ECTS definition
5	Bardzo dobry [very good]– perfect knowledge, skills, competences	A	Celujący [exemplary] – extraordinary achievements
4,5	Dobry plus [good plus]– very good knowledge, skills, competences	B	Bardzo dobry [very good] – above average standards with some mistakes
4	Dobry [good] – good knowledge, skills, competences	C	Dobry [good] – general good work with some noticeable mistakes
3,5	Dostateczny plus [satisfactory plus] – satisfactory knowledge, skills, competences but with significant shortcomings	D	Zadowalający [satisfactory] – satisfactory but with significant mistakes
3	Dostateczny [satisfactory] – satisfactory knowledge, skills, competences but with numerous shortcomings (threshold 60% of the requirements)	E	Dostateczny [satisfactory] – outcomes meet minimal criteria
2	Niedostateczny [insufficient] – insufficient knowledge, skills and competences (below 60% of the requirements)	FX, F	Niedostateczny [insufficient] – basic shortcomings in material

Assumed grading methods
<p>Diagnosing assessment:</p> <p>1. Knowledge test, for example from lectures or from the scope of prerequisites</p> <p>Formative assessment:</p> <p>1. Tutorials covering a given subject matter. 2. Observation of the student during the classes. 3. Assessment of class discussions. 4. Passing sets of issues necessary to pass the practical (conducting a physical examination, assessment of manual efficiency, conducting a physical examination) 5. Evaluation of the prepared project. 6. Evaluation of the presentation. 7. Assessment of other tasks performed by the student in accordance with the effects assumed in the syllabus.</p> <p>Summary assessment:</p> <p>1. Exams and oral exams - a list of issues assigned to specific learning outcomes. 2. Exams and written tests with the assignment to specific learning outcomes. 3. On practical classes, vocational trainees - the evaluation of the effects of education on the basis of passing the learning outcomes of practical classes, practical skills shown in the diary, passing the results education. 4. Diploma dissertation, which consists of a theoretical and practical part - includes checking knowledge, practical skills and social competences acquired throughout the study period. (Attach the Rules of the diploma exam course)</p>

Curriculum content

Surgery

1. Pathophysiological basis of the body's response to injury:
 - a. homeostasis,
 - b. water and electrolyte management,
 - c. wound,
 - d. pain,
 - e. shock,
 - f. respiratory disorders,
 - g. cardiovascular disorders,
 - h. peripheral vascular disorders
2. Hospital infections in surgery:
 - a. causes of infections
 - b. protection of the system
 - c. handling of infections
3. Diagnostic tests and small treatment procedures:
 - a. laboratory tests
 - b. imaging studies
 - c. small healing treatments
4. Nutrition of patients in surgery
 - a. energy resources of the system
 - b. post-traumatic metabolic disorders
 - c. basic demand regime
 - d. Nutrition: oral, enteral, intravenous
5. Perioperative period:
 - a. preparing a surgeon for surgery
 - b. preparing the patient for surgery
 - c. postoperative care
6. Care for the patient in surgery departments on one day
7. Care for a sick person with an injury
 - a. laying the patient
 - b. maintaining airway patency
 - c. artificial respiration
 - d. heart massage e. anti-shock treatment
8. Care for the patient in acute surgical conditions
 - a. diagnostics
 - b. CPR
 - c. peritonitis
 - d. intestinal obstruction
 - e. healing treatments
9. Care for a patient with digestive system diseases
 - a. symptoms of digestive system diseases
 - b. recognition
 - c. indications for surgical treatment
 - d. treatment of selected diseases of the gastrointestinal tract: esophagus, stomach, duodenum, liver, pancreas, bile duct, small intestine, large intestine, spleen, abdominal hernia.
10. Care for patients with breast cancer:
 - a. non-cancerous diseases of the nipple
 - b. benign tumors

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- c. breast cancer
- 11. Care for a patient with selected endocrine diseases
 - a. methods for testing endocrine glands
 - b. thyroid disease
 - c. parathyroid disease
 - d. adrenal glands
 - e. pancreatic endocrine activity
- 12. Care of a urological patient:
 - a. essential symptoms of urological diseases
 - b. urological examination
 - c. tumors of genitourinary organs
 - d. prostate disease
 - e. urolithiasis

Surgical nursing

1. Preparing the patient for surgery, preoperative anxiety, postoperative pain.
Metabolic reaction for surgery. Water and electrolyte and acid-base management after surgery.
Preparation of a patient with diabetes for surgery.
An elderly patient treated surgically.
2. Postoperative complications - prevention, diagnosis, and nursing.
3. Care of a patient with digestive system diseases: liver, gall bladder and biliary tract diseases.
4. Care of a patient with digestive system diseases: pancreatic diseases.
5. Care of a patient with digestive system diseases: diseases of the esophagus, stomach and duodenum.
6. Care of a patient with thyroid diseases treated surgically
7. Care of a patient with digestive system diseases: bleeding from the upper and lower digestive tract.
8. Care of a patient with diseases of the blood vessels.

Practical classes and professional training

1. Organization of classes in the surgical ward. Discussion of the regulations, rules of work and applicable documentation.
2. Preparation of the patient for surgery, preoperative anxiety, postoperative pain.
Preparation of a patient with diabetes for surgery. An elderly patient treated surgically.
Preparing the patient for surgery as part of one day surgery.
3. Factors that increase perioperative risk.
4. Preparation of the patient for diagnostic tests.
5. Postoperative complications - prevention, diagnosis, and nursing.
6. Nursing a patient with digestive system diseases: liver, gall bladder and biliary tract diseases.
7. Nursing a patient with diseases of the digestive system of the pancreas: acute and chronic pancreatitis.
8. Nursing a patient with diseases of the digestive system: diseases of the esophagus, stomach and duodenum and hernia
9. Nursing a patient with digestive system diseases: bleeding from the upper and lower digestive tract.
10. Nursing a patient with digestive system diseases: small and large intestine diseases.
11. Patient with gastrointestinal obstruction.
12. Care of a patient with an intestinal stoma. Rehabilitation after gastroenterological procedures.
13. Nursing a patient with thyroid diseases treated surgically
14. Patient care of blood vessels.
15. Care of the patient after limb amputation
16. Patient care of urinary tract diseases
17. Patient care with uterine fistula

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18. Patient care after craniocerebral trauma.
19. Nursing a patient after a back injury.
20. Nutrition of surgical patients in the period before and after surgery: enterally and parenterally.
21. Preparing the patient for self-care.
22. Preparing the operating room staff, surgical instruments, operating underwear and medical equipment in accordance with the principles of asepsis.
23. Preparation of hands for surgery by surgical cleaning and disinfection.
24. Standards and documentation in the operating theater.

Self-studying:

1. Preparing a patient for diagnostic tests.
2. Wounds – classification, processes and ways of wound healing, treatment, postoperative wound management.
3. Burns and frostbite – care and treatment.
4. Perioperative infections.
5. Caring for a patient with a pleural drain.
6. Nurses' tasks in treating an intravenously fed patient. Preparing a patient and his/her family for self-care.
7. Preparing the care-giving process of a patient diagnosed with selected diseases and treated on the surgical ward.
8. Preparing a paper on a case study related to a surgically-treated patient.

Main bibliography:

1. Surgery vol. I and II, edited by Wojciech Noszczyk, PZWL 2006
2. Surgery for medical students, edited by Jan Fibak, PZWL 1996
3. Clinical fundamentals and nursing of the patients in the pre- and post-operative period in general surgery, orthopedics and traumatology. Ed. Grażyna Bączyk, Wojciech Kapała. Poznań, Wydawnictwo Naukowe Uniwersytet Medycznego im. Karol Marcinkowski, 2018
4. Basics of surgical nursing, Elżbieta Walewska, PZWL 2006

Supplementary bibliography:

1. Nursing procedures. Manual for medical studies. Kózka M., Płaszewska-Żywko L. PZWL, 2009

Student's involvement

Form of activity	Hours	ECTS
Total number of hours	375	14
Hours requiring direct contact with a lecturer	70	3
Hours of practical classes and of professional training	280	10
Activities requiring self-studying	25	1