

Faculty of Medicine / HIGHER MEDICAL SCHOOL / HEALTHCARE IN SURGERY WITH SURGERY

Course:	HEALTHCARE IN SURGERY WITH SURGERY			
Course ID	Course status	Semester	ECTS credits	Lessons (Lessons+Exercises+Laboratory)
10735	Mandatory	5	8	5+9+0
Programs	HIGHER MEDICAL SCHOOL			
Prerequisites	There are no conditions for applying and hearing the subject.			
Aims	The aim of the course is to provide students with knowledge in the field of surgery and health care of surgical patients.			
Learning outcomes	After the student passes this exam, he will be able to: 1. plan and implement preoperative, perioperative and postoperative care. 2. know, understand, and participate in planning the organization in the operating room, as well as the role of care in the operating room and during general anesthesia. 3. recognize care problems and analyze care planning for patients suffering from acute and chronic diseases and burns. 4. recognize care problems and analyze care planning for patients suffering from surgical problems of the digestive, respiratory, endocrine, and hematological systems. 5. determine the role of the nurse as a member of the health team in terms of treatment and rehabilitation of patients who have undergone surgery. 6. defines assessment methods and plans care for patients suffering from surgical problems of the cardiovascular, nervous, musculoskeletal, urinary, and reproductive systems, sensory organs, and skin problems. 7. plans and implements through critical thinking, individual, standardized care in all cases. 8. knows, understands, and carries out the care of surgical patients 9. evaluates the critical issues of prevention of complications and their treatment within the process of nursing care. 10. make a plan and program for continuity of care after discharge from the hospital.			
Lecturer / Teaching assistant	Prof. dr Miodrag Radunović, Doc. dr Veselin Stanišić, Doc. dr Marijana Karišik, Prof. dr Žarko Dašić			
Methodology	Lectures, practical exercises, colloquiums, consultations.			
Plan and program of work				
Preparing week	Preparation and registration of the semester			
I week lectures	Specificity of surgical conditions; Antisepsis; Application of disinfection in surgery; Asepsis; Bleeding and hemostasis.			
I week exercises	Acquaint students with the principles of asepsis and antisepsis in surgery, practically acquaint them with the operation of autoclaves and all sterilizers, importance. During the exercises, introduce students to bleeding, types and modalities of hemostasis (sterilization block, simulation room).			
II week lectures	Blood groups; Blood transfusion; Water, electrolytes and acid-base balance; Infusion solutions; Shock; Basic diagnostic methods; Additional diagnostic methods.			
II week exercises	Acquaint students with blood transfusions, complications, determination of blood group and cross-reactions, significance. Causes of shock, therapy, volume replacement, infusion solutions (surgical ward, ICU). Through familiarization with diagnostic modalities, students become familiar with the practical application of basic and supplementary diagnostic methods (radiology and laboratory cabinets).			
III week lectures	The role of the nurse in the operating room. Introduction to anesthesia. Preoperative preparation of the patient; Anesthesia - general inhalation anesthesia; Reanimation; Preoperative complications; Drainage in surgery; Immobilization.			
III week exercises	Getting to know the work in the operating room. Types of anesthesia, possible complications, resuscitation. Introduce students to the use of drainage in surgery, immobilization and types of immobilization in traumatized patients (operating room, ICU).			
IV week lectures	Injuries; Mechanical injuries; Surgical wound treatment; Thermal injuries; Injuries caused by electric energy and ionizing radiation; Injuries by chemical means and biological injuries; Infection in surgery; Tumors and surgical treatment. Care of patients with injuries and the role of nurses in wound care			
IV week exercises	Acquaintance of students with injuries, types of wounds and their treatment with their active participation. Treatment of infection and tumors, care, treatment of wounds (surgical clinics, emergency center).			
V week lectures	Digestive surgery; Surgical diseases of the esophagus; Surgical diseases of the stomach and duodenum; Surgical diseases of the small and large intestine. Care of operated patients. Appendicitis. Care of patients with IBD.			
V week exercises	Acquaint students with the basic clinical manifestations of diseases of the digestive tract along with the patient. Nurses role, monitoring of drains, catheters, oxygen and enteral nutrition (ICU, surgery			

	departments).
VI week lectures	Staphylococcal infections, carbunculus, furunculus, phlegmon, abscess. Anaerobic infections, gas gangrene, tetanus, TU of the skin, tumors in general.
VI week exercises	Students acquire basic knowledge about the principles of diagnosis, treatment, and care of patients with pyogenic and anaerobic infections (surgical clinics, surgery departments, emergency centers).
VII week lectures	Surgical diseases of the pancreas, liver, and spleen. Surgical diseases of the gallbladder and bile ducts and care of operated patients. Colloquium.
VII week exercises	The practical part of the exercises with patients operated on for HPD disease. Their monitoring and care (ICU, Department of Surgery). Colloquium.
VIII week lectures	Acute abdomen, peritonitis, bleeding. Ileus. Abdominal wall hernias. Diagnostics, treatment, and care of operated patients.
VIII week exercises	Introducing the student to the clinical manifestations of acute abdominal syndrome. The importance of timely diagnosis and treatment. Monitoring (ICU, Surgical Department).
IX week lectures	Diseases of the thyroid gland, pituitary gland, and adrenal glands. Surgery of congenital and acquired heart defects. Acquired heart diseases. Diagnostics, treatment, and health care.
IX week exercises	Along with the patient, students learn about diseases and defects of the heart, surgery of the thyroid gland, and adrenal gland. Importance of monitoring, care of operated patients (ICU, Department of Surgery).
X week lectures	Breast surgery, burns, tracheostomy, patient care.
X week exercises	Care of patients operated on breast tumors, massive burns, patients with tracheostomy. Psychological support, wound cleansing, and care (ICU, Surgery and ENT department).
XI week lectures	Orthopedics: injuries of the pelvis, upper and lower extremities, dislocations, fractures, distortions - diagnosis, treatment, patient care.
XI week exercises	Familiarize students with locomotor system and spine injuries. Types of immobilization, anti-decubitus treatment, monitoring and health care.
XII week lectures	Diseases of the urinary system, birth defects, kidney, and bladder tumors. BHP, prostate carcinoma, diagnosis, treatment, care of operated patients.
XII week exercises	Along with the patient, the student learns about the disease: congenital conditions of UGT. Emphasis should be placed on the diagnosis of BHP and carcinoma of the prostate, treatment, care of those who have been operated on. Catheterization (Urology Department).
XIII week lectures	Thoracic, cardio, and vascular surgery - surgical diseases of the neck; chest injuries; Surgical disease of the chest wall and lungs; Surgery of congenital heart defects; Surgery of acquired heart diseases.
XIII week exercises	Along with the patient, students monitor drains, vital parameters, operated and traumatized patients with injuries or operations of the chest or organs, heart, lungs. Prevention of embolism, DVT, infection. Care.
XIV week lectures	Diseases of blood vessels, arterial aneurysms, thrombophlebitis, deep vein thrombosis, M. Buerger - diagnosis, treatment, and care.
XIV week exercises	Acquaintance of students with a patient with frequent diseases of blood vessels. Prevention of DVT and the nurses role in patient care and early mobilization (Surgery Department, Doppler cabinet).
XV week lectures	Neurosurgery; Craniocerebral injuries; Maxillofacial surgery; Spinal column and spinal cord injuries; Intracranial tumors, cerebrovascular diseases, and infections; Discus hernia; Peripheral nerve injuries
XV week exercises	Get to know the student with craniocerebral injuries. The nurses role in monitoring, state of consciousness, infections, peripheral nerve damage. Care (ICU, surgical and neurological department).
Student workload	
Per week	Per semester
8 credits x 40/30=10 hours and 40 minuts 5 sat(a) theoretical classes 0 sat(a) practical classes 9 excercises -4 hour(s) i 40 minuts of independent work, including consultations	Classes and final exam: 10 hour(s) i 40 minuts x 16 =170 hour(s) i 40 minuts Necessary preparation before the beginning of the semester (administration, registration, certification): 10 hour(s) i 40 minuts x 2 =21 hour(s) i 20 minuts Total workload for the subject: 8 x 30=240 hour(s) Additional work for exam preparation in the preparing exam period, including taking the remedial exam from 0 to 30 hours (remaining time from the first two items to the total load for the item) 48 hour(s) i 0 minuts Workload structure: 170 hour(s) i 40 minuts (courses), 21 hour(s) i 20 minuts (preparation), 48 hour(s) i 0 minuts (additional work)

Student obligations		It is mandatory for students to attend theoretical and practical classes.				
Consultations						
Literature		Grubor P. Hirurgija i njega hirurških bolesnika. Medicinski fakultet Univerziteta u Banja Luci, 2008. Pajović B, Radunović M. Njega hirurških bolesnika. Medicinski fakultet Univerziteta Crne Gore, Podgorica, 2010.				
Examination methods		Attendance at theoretical classes and testing knowledge at exercises - 20 points Colloquium - 30 points Final exam: practical and oral - 50 points. Forming the grade: class attendance + K + final exam Grade A B C D E Number of points 90-100 80-89 70-79 60-69 50-59.				
Special remarks						
Comment						
Grade:	F	E	D	C	B	A
Number of points	less than 50 points	greater than or equal to 50 points and less than 60 points	greater than or equal to 60 points and less than 70 points	greater than or equal to 70 points and less than 80 points	greater than or equal to 80 points and less than 90 points	greater than or equal to 90 points