

Faculty of Medicine / MEDICINE / SURGERY

Course:	SURGERY			
Course ID	Course status	Semester	ECTS credits	Lessons (Lessons+Exercises+Laboratory)
13977	Mandatory	12	4	0+6+0
Programs	MEDICINE			
Prerequisites	Successful completion of the Surgery exam is required before enrollment to clinical practice.			
Aims	The objective of this subject is for final-year medical students, under professional supervision, to gain necessary clinical experience within the healthcare system. Students should get familiarized with the principles of surgical treatment in line with contemporary scientific views and practices. Furthermore, students should systematically apply the knowledge acquired during their studies for timely diagnosis of diseases, conditions, clinical syndromes, appropriate therapeutic approaches, and maintain a professional attitude towards patients, patient companions, colleagues, and collaborators.			
Learning outcomes	Upon completion of the Clinical Practice in Surgery, students will be able to: Independently perform activities as primary care physicians in the prevention, diagnosis, and treatment of diseases and injuries. Properly take patient history and conduct clinical exam of the sick and injured. Participate in team and phased processes of diagnosing and treating the sick and injured. Identify and promptly detect common conditions and diseases requiring surgical treatment. Indicate diagnostic procedures for definitive diagnosis. Properly interpret results of laboratory and clinical tests. Propose appropriate therapeutic procedures. Get familiarized with the principles of triage and admission in emergency situations and provide assistance to the sick or injured in urgent surgical conditions. Respect the code of confidentiality and the code of professional conduct for healthcare workers.			
Lecturer / Teaching assistant	Prof. dr. Miodrag Radunović, Doc. dr. Novak Lakićević, and associates from the Department of Surgery.			
Methodology	During clinical practice, students independently perform practical work under the supervision of teachers or associates at the clinic, which includes: Practical work with patients. Independent performance of clinical skills. Demonstration of clinical skills. Consultations.			
Plan and program of work				
Preparing week	Preparation and registration of the semester			
I week lectures				
I week exercises	Surgical Propedeutics. Interpretation of native X-rays of lungs, abdomen, skull, bones, breasts. Interpretation of ultrasound and Doppler ultrasound findings. Interpretation of CT and MR. Interpretation of contrast radiological studies (passage of GD and TC, irigography, PTC, ERCP, IVU, myelography, angio). Interpretation of endoscopic findings (proximal and distal GIT endoscopy, bronchoscopy, cystoscopy).			
II week lectures				
II week exercises	Practical application of sterilization and preparation of instruments. Organization of work and behavior in the operating room. Surgical hand disinfection, donning sterile clothing, donning gloves. Preparation of the operative field (shaving, washing, isolation). Disinfection of the operative field.			
III week lectures				
III week exercises	Surgical instruments. Basic surgical techniques (surgical knot, suture) – model and patient. Local anesthesia. Treatment of the surgical wound.			
IV week lectures				
IV week exercises	Management of infected wounds. Incision and drainage of abscesses. Temporary hemostasis.			
V week lectures				
V week exercises	Technique of applying bandages. Immobilization technique. Antibiotic, antirabies, and antitetanus protection.			
VI week lectures				
VI week exercises	Postoperative wound care. Removal of sutures from the operative wound. Prevention and therapy of decubitus.			
VII week lectures				
VII week exercises	Extraction of foreign bodies and excision of ticks. Taking blood samples for laboratory tests. Subcutaneous injection. Intramuscular injection. Insertion of intravenous cannula. Determining the infusion rate and programming the infusion pump.			

VIII week lectures						
VIII week exercises	Catheterization of the urinary bladder. Insertion of a nasogastric tube. Preparation and instillation of an enema. Puncture and drainage of the pericardium. Puncture and drainage of the thoracic cavity.					
IX week lectures						
IX week exercises	Puncture and drainage of the abdomen. Recognition and treatment of acute limb ischemia. Recognition and treatment of DVT and superficial thrombophlebitis.					
X week lectures						
X week exercises	Clinical neurological examination. Diagnostic-therapeutic approach to comatose patients. Application of the Glasgow Coma Scale. Lumbar puncture and drainage. Peripheral nerve block.					
XI week lectures						
XI week exercises	Examination of skin tumors. Examination of the hand – sensitivity, sweating, motor function, muscle strength, tendon reflexes, special tests, vascularization. Assessment of burn severity and resuscitation principles. Assessment of burn surface area and depth. Recognition of respiratory burns.					
XII week lectures						
XII week exercises	Examination of the spinal column. Examination of the shoulder joint. Examination of the elbow joint. Examination and assessment of posture and gait, and measurement of extremities.					
XIII week lectures						
XIII week exercises	Examination of the hip joint. Examination of the knee joint. Examination of the ankle joint and foot. Repositioning of dislocated joints.					
XIV week lectures						
XIV week exercises	Repositioning of fractures. Plaster immobilization. Joint punctures. Intra-articular and extra-articular medication instillation.					
XV week lectures						
XV week exercises	Treatment of the umbilicus in newborns. Treatment of BCG-itis in newborns. Examination of the umbilical, inguinal, and scrotal regions in children. Examination of the hips and feet of newborns. Rectal temperature measurement, microenema.					
Student workload						
Per week			Per semester			
4 credits x 40/30=5 hours and 20 minuts 0 sat(a) theoretical classes 0 sat(a) practical classes 6 excercises -1 hour(s) i 20 minuts of independent work, including consultations			Classes and final exam: 5 hour(s) i 20 minuts x 16 =85 hour(s) i 20 minuts Necessary preparation before the beginning of the semester (administration, registration, certification): 5 hour(s) i 20 minuts x 2 =10 hour(s) i 40 minuts Total workload for the subject: 4 x 30=120 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) 24 hour(s) i 0 minuts Workload structure: 85 hour(s) i 20 minuts (cources), 10 hour(s) i 40 minuts (preparation), 24 hour(s) i 0 minuts (additional work)			
Student obligations			Regular attendance.			
Consultations						
Literature			Literature recommended for the subject Surgery.			
Examination methods			The teacher responsible for professional practice/clinical practice keeps a record of regular attendance and student activities. After completing the clinical internship, the student does not receive a grade, but is obligated to complete the clinical practice to achieve the planned number of ECTS credits.			
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