

Faculty of Medicine / APPLIED PHYSIOTHERAPY / SURGERY WITH TRAUMATOLOGY

Course:	SURGERY WITH TRAUMATOLOGY			
Course ID	Course status	Semester	ECTS credits	Lessons (Lessons+Exercises+Laboratory)
2008	Mandatory	3	2	2+0+0
Programs	APPLIED PHYSIOTHERAPY			
Prerequisites	Passed exams in Anatomy I, Anatomy II, Histology.			
Aims	Students should acquire basic knowledge about the principles of work in surgery and about injuries of the locomotor system, chest and abdomen and craniocerebral injuries, about their care and conservative and operative treatment.			
Learning outcomes	It is expected that the student after passing the examination in this subject will be able to: 1. Define and describe the basic principles of the work in surgery 2. Describe the basic pathophysiological events caused due to the injury and the basic pathophysiological processes in response to injury 3. Identify and name the type of injury and describe the methods of their treatment 4. Know the basics of plastic and reconstructive surgery 5. Recognize and describe the injuries of the bone and joint systems, methods of treatment, and complications of fracture healing and ways of their treatment			
Lecturer / Teaching assistant	Doc. dr Sonja Milašinić, prof. dr Aleksandar Nikolić, doc. dr Zoran Terzić.			
Methodology	Lectures, preparation of seminar papers, colloquiums, consultations			
Plan and program of work				
Preparing week	Preparation and registration of the semester			
I week lectures	Basic principles of work in surgery. Asepsis and antisepsis, bleeding and hemostasis (basic)			
I week exercises	Basic principles of work in surgery. Asepsis and antisepsis, bleeding and hemostasis (basic)			
II week lectures	Transfusion, shock, tumors (metastases)			
II week exercises	Transfusion, shock, tumors (metastases)			
III week lectures	Cardiocerebropulmonary resuscitation (CCPR). Anesthesia, types of anesthesia, pain therapy.			
III week exercises	Cardiocerebropulmonary resuscitation (CCPR). Anesthesia, types of anesthesia, pain therapy.			
IV week lectures	Injuries, types of injuries. Wounds and wound healing. Polytrauma.			
IV week exercises	Injuries, types of injuries. Wounds and wound healing. Polytrauma.			
V week lectures	Infections in surgery, aerobic and anaerobic infections and sepsis. Burns, burns caused by chemical agents, frostbite, electric shock			
V week exercises	Infections in surgery, aerobic and anaerobic infections and sepsis. Burns, burns caused by chemical agents, frostbite, electric shock			
VI week lectures	Blast and Crush syndrome. Immobilization, types.			
VI week exercises	Blast and Crush syndrome. Immobilization, types.			
VII week lectures	Injuries of the musculoligamentous apparatus, distortions, luxations, treatment and treatment. Joint injuries. Bone fractures, mechanism, types, first aid. Amputations			
VII week exercises	Injuries of the musculoligamentous apparatus, distortions, luxations, treatment and treatment. Joint injuries. Bone fractures, mechanism, types, first aid. Amputations			
VIII week lectures	Complications after injuries to the musculoskeletal system. Infection, osteomyelitis, treatment (M. Sudeck, pseudoarthrosis, contractures)			
VIII week exercises	Complications after injuries to the musculoskeletal system. Infection, osteomyelitis, treatment (M. Sudeck, pseudoarthrosis, contractures)			
IX week lectures	Upper extremity injuries. Lower extremity injuries, pelvic injuries			
IX week exercises	Upper extremity injuries. Lower extremity injuries, pelvic injuries			
X week lectures	Injuries of the spine and peripheral nerves, disc herniation, diagnosis, treatment, physical treatment.			
X week exercises	Injuries of the spine and peripheral nerves, disc herniation, diagnosis, treatment, physical treatment.			
XI week lectures	Craniocerebral injuries. Intracranial hemorrhages. Comotio, contusio and compresio cerebri. Diagnostics and treatment, physical treatment			
XI week exercises	Craniocerebral injuries. Intracranial hemorrhages. Comotio, contusio and compresio cerebri.			

	Diagnostics and treatment, physical treatment					
XII week lectures	Chest injuries, rib fractures, pneumo and hematothorax, acquired heart defects, aortocoronary bypass, diagnosis and treatment.					
XII week exercises	Chest injuries, rib fractures, pneumo and hematothorax, acquired heart defects, aortocoronary bypass, diagnosis and treatment.					
XIII week lectures	Abdominal injuries, acute abdomen, Ileus, bleeding and peritonitis, diseases of the gastrointestinal tract.					
XIII week exercises	Abdominal injuries, acute abdomen, Ileus, bleeding and peritonitis, diseases of the gastrointestinal tract.					
XIV week lectures	Injuries and diseases of the urinary system, calculus of the urinary system, BHP, prostate cancer.					
XIV week exercises	Injuries and diseases of the urinary system, calculus of the urinary system, BHP, prostate cancer.					
XV week lectures	Diseases of arterial and venous blood vessels, CVI, treatment, complications.					
XV week exercises	Diseases of arterial and venous blood vessels, CVI, treatment, complications.					
Student workload	Engleski metak During the semester Teaching and final exam: (2.66 hours) x 16 = 42.56 hours Necessary preparations before the beginning of the semester (administration, enrollment, certification): (2.66 hours) x 2 = 5.32 hours Total workload for the course: 2 x 30 = 60 hours Load structure: 42.56 hours (classes and final exam) + 5.32 hours (preparation) + 12 hours (supplementary work)					
Per week				Per semester		
2 credits x 40/30=2 hours and 40 minuts 2 sat(a) theoretical classes 0 sat(a) practical classes 0 excercises 0 hour(s) i 40 minuts of independent work, including consultations				Classes and final exam: 2 hour(s) i 40 minuts x 16 =42 hour(s) i 40 minuts Necessary preparation before the beginning of the semester (administration, registration, certification): 2 hour(s) i 40 minuts x 2 =5 hour(s) i 20 minuts Total workload for the subject: 2 x 30=60 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) 12 hour(s) i 0 minuts Workload structure: 42 hour(s) i 40 minuts (courses), 5 hour(s) i 20 minuts (preparation), 12 hour(s) i 0 minuts (additional work)		
Student obligations	It is mandatory for students to attend theoretical classes.					
Consultations	Consultations take place by agreement with students. Additional information about the subject can be obtained from the subject teacher, the head of the study program and the vice dean for teaching					
Literature	Banović D, i sar. Traumatologija koštanozglobnog sistema. Zavod za udžbernike i nastavna sredstva, Beograd, 1998. Pajović B, Radunović M. Hirurgija za studente Visoke medicinske škole. Medicinski fakultet UCG, Podgorica, 2014.					
Examination methods	2 seminar papers - 10 points (each paper 5 points) Colloquium I - 20 points Colloquium II - 20 points Final exam: 50 points Grading: 2 seminar papers + KI + KII + final exam Grade A B C D E Number of points 90-100 80-89 70-79 60-69 50-59					
Special remarks						
Comment	Colloquiums, seminars and consultations take place by agreement with the students. Additional information about the subject can be obtained from the subject teacher, the head of the study program and the vice dean for teaching.					
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