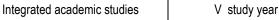
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UNIVERSITY OF EAST SARAJEVO

Faculty of Medicine

Study program: Medicine





Full course title SURGERY

Department Department of Surgery, Faculty of Medicine in Foča

Course code		Course status	Semester	ECTS	
ME-04-1-045-9, ME-04-1-045-10		compulsory	IX, X	27	
Teacher/-s	Professor Veljko Marić, MD, PhD; Professor Milomir Ninković, MD, PhD; Professor Radojica Jokić, MD, PhD; Associate professor Zoran Radovanović, MD, PhD; Associate professor Sanja Marić, MD PhD; Associate professor Radmil Marić, MD, PhD; Associate professor Vjeran Saratlić, MD, PhD; Associate professor Milivoje Dostić, MD, PhD; Associate professor Dražan Erić, MD, PhD; Associate professor Maksim Kovačević, MD, PhD; Assistant professor Milorad Bijelović, MD, PhD, Assistant professor Nenad Lalović				
Associate/ - s		Rade Miletić, MD, MSc; Senior enka Milić, MD; assistant Đorđe Šarenac, MD,			

The number of teaching hours/ teaching workload (per week)			Individual student workload (in hours per semester)			Coefficient of student workload S _o ¹
L	E	SP	L	E	SP	S₀
5	7	2.66	5*15*0.9	7*15*0.9	2.66*15*0.9	0.9
5	6	2.66	5*15*0.9	6*15*0.9	2.66*15*0.9	09

Total teaching workload (in hours, per semester)	Total student workload (in hours, per semester)
5*15 +7*15 + 2.66*15 = 220	5*15*0.9+ 7*15*0.9+ 2.66*15*0.9= 199
5*15 +6*15 + 2.66*15 = 205	5*15*0.9+ 6*15*0.9+ 2.66*15*0.9= 186

5*15	+6*15 + 2.66*15 = 205	5*15*0.9+ 6*15*0.9+ 2.66*15*0.9= 186
	Total subject workload (teachi	ng+student):425 + 385 = 810 thours
	colleagues, as well as teamwork princip	basic communication skills with patients, patients' relatives and bles and the basics of ethics. ticularities of taking anamnesis and physical examination of a
Learning outcomes		quire all the necessary knowledge of pathogenesis, clinical and conditions of adult population, related to all surgical
	4.Particular attention is paid to the impo	ortance of preventive medical procedures.
	examination, diagnostic and differential	nts develop clinical skills in all surgical specialties, patients' diagnostic procedures, interpretation of X-ray images, get al findings, endoscopic procedures, acute management of an

¹Coefficient of student workload S_o is calculated as it follows:

Preconditions

Teaching methods

Lectures, practical exercises, problem-based learning, work on phantoms, case presentations, seminar

injured patient and other acute surgical conditions.

papers, using simulation software, consultations

Precondition for taking the exam: all of the fourth year exams passed

a) for the study programs not going through the licensing process: S₀ = (total workload in semester for all of the subjects 900 hrs – total teaching workload L+Ein semester for all of the subjects 870 hrs)/ total teaching workload L+Ein semesterfor all of the subjects _____ hrs = ____. Consult form content and its explanation.

b) for the study programs going through the licensing process, it is necessary to use form content and its explanation.

SYLLABUS OF THE THEORETICAL SURGERY LECTURES Introduction to Surgery, general principles

- 1. Introduction (2 hours)
- 2. Methods of surgical prophylaxis (1 hours)
- 3. Surgical infections (2 hours)4. Injuries, hemorrhage and hemostasis (3 hours)
- 5. Surgical wound and tissue transplant (2 hours)

Anesthesia, Resuscitation and Pain Management

- 6. Anesthesia and analgesia (2 hours)
- 7. Anesthesia and analgesia, water and electrolyte balance (1 hour)
- 8. Cardiopulmonary resuscitation (2 hours)
- 9. Shock and blood transfusion (2 hours)
- 10. Basic principles of surgical diagnostics (3 hours)
- 11. Preoperative preparation and postoperative care (2 hours)

Heart and vascular surgery

- 12. Heart and large blood vessels surgery (2 hours)
- 13. Pulmonary embolism (1 hour)
- 14. Pericardium, heart tumours, heart defects. Fundamentals of electrical stimulation. (3 hours)
- 15. Peripheral vascular surgery, surgically correctable hypertension хипертензија (8 hours)

Abdominal surgery

Course content per week

- 16. Esophageal and diaphragmatic surgery (2 hours)
- 17. Endocrine surgery- thyroid and parathyroid gland (2 hours)
- 18. Abdominal wall (2 hours)
- 19. Acute abdomen (3 hours)
- 20. Manifestations of digestive diseases, stomach and duodenum (5 hours)
- 21. Small intestine, appendix, ileum (5 hours)
- 22. Colon surgery, rectum and anus (5 hours)
- 23. Liver surgery (5 hours)
- 24. Gallbladder, bile ducts, pancreas and spleen (3 hours)
- 25. Endocrine surgery- endocrine pancreas, adrenal (2 hours)
- 26. Retroperitoneum (2 hours)
- 27. Oncological surgery (3 hours)

Plastic and reconstructive surgery

- 28. Plastic and reconstructive surgery (4 hours)
- 29. Oncological surgery (1 hour)

Chest surgery

- 30. Chest surgery- introduction and basic principles (5 hours)
- 31. Chest surgery- chest wall injuries, lung diseases (5 hours)
- 32. Chest surgery- pneumothorax, thoracic drainage (3 hours)

Urology

33. Prostate, tumors in urology (5 hours)

- 34. Semiology of urologic diseases, diagnostic methods in urology, TB, urolithiasis (5 hours
- 35. Inflammation processes of the urinary tract. (2 hours)
- 36. Andrology, urogenital injuries, kidney transplant (3 hours)

Orthopedics and traumatology

- 37. Orthopedics, bone and joint infections, developmental diseases (5 hours)
- 38. Osteoporosis, tumors, diseases of the spine, hips, knee and feet (5 hours)
- 39. Traumatology, vertebral column, pelvis and hips, lower extremities. (5 hours)
- 40. Arthroscopy, replantation, modern principles of fracture management and treatment (3 hours)
- 41. Emergencies and mass casualty incidents surgery (3 hours)

Neurosurgery

- 42. Cerebrovascular diseases, CNS tumors (2 hours)
- 43. Spine and spinal cord, congenital malformations of the CNS (2 hours)
- 44. Peripheral nerves (2 hours)
- 45. CNS infections, pain surgery, functional neurosurgery (2 hours)
- 46. Injuries of the head and brain (2 hours)

Pediatric surgery

- 47. Pediatric surgery introduction, chest wall, congenital anomalies (3 hours)
- 48. Pediatric surgery- pediatric orthopedics and traumatology (2 hours)
- 49. Pediatric surgery- urology, abdominal surgery, thoracic and cardiovascular surgery, emergencies (5 hours)

SYLLABUS OF THE PRACTICAL SURGERY EXERCISES

Introduction to surgery, general principles

- 1 Introduction exercises, Methods of surgical prophylaxis, Surgical infections (7 hours)
- 2 Injuries, surgical wound, hemorrhage and hemostasis, Blood transfusion (7hours)

Anesthesia, resuscitation and pain management

- 3 Tissue transplant, Tumor surgery, Anesthesia and analgesia (7 hours)
- 4 Water and electrolytes balance, Cardiopulmonary resuscitation, Shock (7hours)

Heart and vascular surgery

- 5 Esophageal and diaphragmatic surgery, Heart and large blood vessels surgery, Pulmonary embolism (7 hours)
- Pericardium, heart tumors, heart defects, Fundamentals of electrical stimulation, Peripheral vascular surgery, Surgically correctable hypertension (7 hours)

Abdominal surgery

- 7 Abdominal wall, Endocrine surgery (7hours)
- 8 Acute abdomen, Manifestations of the digestive diseases, stomach and duodenum (7 hours)
- 9 Small intestine, apendix, ileum, Colon surgery (7 hours)
- 10 Rectum and anus, liver surgery (7 hours)
- 11 Gallbladder, bile ducts, pancreas and spleen (7 hours)

Plastic and reconstructive surgery

12 Plastic and reconstructive surgery, Oncological surgery (7hours)

Chest surgery

13 Chest surgery (4 hours)

Urology

- 14 Urology, semiology of urologic diseases; diagnostic methods in urology (3 classes 3 yaca)
- 15 Urology, TB of the genitourinary tract, calculosis of the urinary tract; Urology, tumors; Urology, prostate (7hours)
- 16 Urology, andrology, inflammatory processes of the urinary tract, injuries, kidney transplant (7hours)

Orthopedics and traumatology

- 17 Orthopedics, diagnostics, principles and methods of treatment, bone and joint infections, developmental diseases, osteoporosis, bone and cartilage tumors (6 hours)
- 18 Orthobedics, diseases of the vertebral column, hips, knee and feet (6 hours)
- 19 Traumatology, introduction, upper and lower extremities (6 hours)
- 20 Traumatology, hand, vertebral column, pelvis, hips; modern methods and options in fracture management and treatment (6 hours)

Neurosurgery

- 21 Neurosurgery, injuries of the head and brain, pain surgery, functional neurosurgery (6 hours)
- 22 Neurosurgery, tumors, cerebrovascular diseases, spine and spinal cord (6 hours)
- 23 Neurosurgery, congenital malformations of the CNS, infections of the CNS, peripheral nerves (6 hours)

Pediatric surgery

- 24 Pediatric surgery, physical examination, diagnostics, preoperative preparation and postoperative care, anesthesia and resuscitation in children; Pediatric surgery, reconstructive surgery in children (6 hours)
- 25 Pediatric surgery, cardiosurgery, chest wall, trauma, inquinal canal pathology (6 hours)
- 26 Pediatric surgery, neonatal surgery, surgical oncology (6 hours)
- 27 Urology, tumors; Pediatric surgery, traumatology of the bone and joint, orthopedics (6 hours)
- 28 Pediatric surgery, urology; Pediatric surgery, congenital malformations of the urinary tract, vesicoureteral reflux and obstructive uropathies in developmental age (6 hours)
- 29 Pediatric surgery, emergencies (3 hours)

Emergencies

- 30 Emergencies and mass casualty incidents surgery (9 hours)
- 31 Chest surgery, emergencies; Urology, emergencies (6 hours)

Compulsory literature				
Author/-s	Publication title, publisher	Year	Pages (from-to)	
Towsend C, Beauchamp RD, Evers BM. Sabiston.	Textbook of Surgery, 19th edition. Elsevier Saunders,.	2012		
Brunicardi FC.	Schwartz's Principles of Surgery, 10 th edition. McGraw	2015		

		Hill Education,				
Joe Tjandra,Gordon J.A. Clunie, Andrew H,Kaye, Jullan.		Textbook of Surgery,3rd ed.	2005			
		Additional literature				
Author/-s		Publication title, publisher	Year	Pa	ges (from-to)	
		Grading policy		Points	Percentage	
	Pre-exam activities					
	1 16-6xaiii					
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responsibilities, types of student assessment and	Final exan	lecture/exercise atte test/ coll praction	loquium cal work	20 20	20%	
responsibilities, types of student		lecture/exercise atte test/ coll practic n practica	loquium cal work al exam	20 20 20	20% 20% 25%	
responsibilities, types of student assessment and		lecture/exercise atte test/ coll practic n practica	loquium cal work	20 20	20%	
responsibilities, types of student assessment and		lecture/exercise atte test/ coll practic n practica	loquium cal work al exam	20 20 20	20% 20% 25%	

^{*} the number of necessary rows is added by using *insert mode*