

<b>Name of the course</b>	<b>Surgery</b>		<b>Code</b>	MSE501
<b>Type of study program:</b>	Integrated university study program, Medicine		<b>Year of study:</b>	5
<b>Credits (ECTS):</b>	12.5	<b>Semester:</b>	IX	<b>Number of hours per semester (L+S+E)</b> 195 45+50+100
<b>Status of the course:</b>	obligatory	<b>Preconditions:</b>	According to the Rulebook on Studying	<b>Comparative conditions:</b> /
<b>Access to course:</b>	Fifth year students		<b>Hours of instructions:</b>	According to schedule
<b>Course teacher:</b>	Associate Professor Josip Mišković, MD, PHD			
<b>Consultations:</b>	As agreed with students			
<b>E-mail address and phone number:</b>	<a href="mailto:josip.miskovic@mef.sum.ba">josip.miskovic@mef.sum.ba</a> +387 63 426 499			
<b>Associate teachers</b>	Assistant Professor Zoran Trninić, MD, PhD, Assistant Professor Martina Šoljić, MD, PhD Associate Professor Davorin Kozomara, MD, PhD Associate Professor Igor Rudež, MD, PhD Assistant Professor Danko Mikulić, MD, PhD Assistant Professor Pejana Rastović, MD, PhD Assistant Vedran Dragišić, MD, PhD Assistant Assistant Ante Bošnjak, MD Assistant Martin Kajić, MD Assistant Miran Boras, MD			
<b>Consultations:</b>	As agreed with students			
<b>E-mail address and phone number:</b>				
<b>The aims of the course:</b>	To acquaint the student with surgical diseases and techniques. To teach basic surgical techniques usable in a primary care setting and to serve as a base for further surgical education.			
<b>Learning outcomes (general and specific competences):</b>	<p>General: to understand basic principles of care for the surgical patients. To understand the general process of surgical treatment of patients in a variety of settings and as a member of the multidisciplinary team.</p> <p>Specific:</p> <ol style="list-style-type: none"> <li>1. To describe basic surgical techniques and principles of asepsis and antisepsis in the treatment of the surgical patient.</li> <li>2. To describe the most common acute surgical diseases.</li> <li>3. To describe diseases and conditions that require emergency surgery.</li> <li>4. To explain and demonstrate the use of emergency surgical techniques.</li> <li>5. To demonstrate the knowledge and skills in terms of medical history taking, surgical patient examination and the extrapolation of a working diagnosis from exam and test findings</li> <li>6. To perform the preoperative patient assessment and work-up of elective surgical patients</li> <li>7. To describe a postoperative treatment plan in conjunction with surgical subspecialists and other medical specialists.</li> <li>8. To be able to establish priorities in surgical treatment and basic vital function management in trauma patients</li> <li>9. To explain surgical treatment of polytraumatized patients and burn patients including initial approach</li> <li>10. To describe and analyze early postoperative complications in the treatment of most common surgical diseases and injuries (postoperative infection, wound dissection, respiratory and urinary complications) and make decisions regarding proper treatment plan including possible complications.</li> </ol>			
<b>Course content (Syllabus):</b>	General and Digestive surgery, Thoracic surgery, Cardiovascular surgery, Plastic and Reconstructive surgery, Pediatric surgery			
<b>Format of instruction (mark in bold)</b>	<b>Lectures</b>	<b>Exercises</b>	<b>Seminars</b>	<b>Independent assignments</b>

	<b>Consultations</b>	<b>Work with mentor</b>	Field work	<b>Other</b>
	Students will be required to attend during on call hours supervised by teaching assistants			
<b>Student responsibilities</b>	Arriving on time and reporting to their designated teaching assistant. White medical clothing (lab coat, white trousers, white medical shoes or clogs) are mandatory.			
<b>Screening student work (mark in bold)</b>	<b>Class attendance</b>	<b>Class participations</b>	Seminar essay	<b>Practical training</b>
	<b>Oral exam</b>	<b>Written exam</b>	<b>Continuous assessment</b>	Essay
<b>Detailed evaluation within a European system of points</b>				
<b>STUDENTS RESPONSIBILITIES</b>	<b>HOURS</b>	<b>PROPORTIONS OF ECTS CREDITS</b>	<b>PROPORTIONS OF GRADE</b>	
Class attendance and participation	195	6.5	0%	
Practical exam	30	1	10%	
Written and oral exam	150	5	90%	
<b>TOTAL:</b>	375	12.5	100%	
<p>Further clarification:  <b>Written exam – 100 multiple choice questions (one correct answer) with no negative points. Written exam makes 50% of the grade (WG).</b></p> <p>The assessment of the written exam is carried out according to the Regulation of Studies of the University of Mostar and applies to all study groups. According to the Regulations on studying final grade is obtained as follows:</p> <p>A = 91-100% 5  B = 79 to 90% 4  C = 67 to 78% 3  D = 55 to 66% 2  F = 0 to 54% 1</p> <p><b>Practical exam</b> consists of taking medical history and performing clinical examination of the patient with emphasis on differential diagnosis, diagnostic procedures and treatment options. <b>Practical exam makes 10% of the final grade (PG).</b></p> <p><b>Oral exam</b> – cards with questions from teaching units. Cards with questions for the oral exam will be available for the students during the course. <b>Oral exam makes 40% of the grade (OG).</b></p> <p><b>Final grade (FG) is calculated through formula</b></p> <p><b>FG=WG*0,5+PG*0,1+OG*0,4</b></p>				
<b>Required literature:</b>	Doherty, G. M. (2020). Current Diagnosis and Treatment Surgery, 15th Edition, McGraw-Hill Education.			
<b>Optional literature:</b>	Townsend, C. M. (2021). Sabiston Textbook of Surgery E-Book: The Biological Basis of Modern Surgical Practice, Elsevier Health Sciences.			
<b>Additional information about the course</b>	<p>Methods of monitoring the quality of teaching:</p> <ul style="list-style-type: none"> <li>- Student questionnaire</li> <li>- Analysis of the quality of teaching by students and teachers</li> <li>- Analysis of exam results</li> <li>- Report of the Quality assurance office</li> <li>- Self-evaluation and external evaluation (visit of the team from Quality assurance office)</li> </ul>			

## Annexes: calendar classes

<b><i>The number of teaching units</i></b>	<b>TOPICS AND LITERATURE</b>
<b><i>I.</i></b>	Title: Approach to the Surgical Patient, Training, Communication, Professionalism, & Systems-Based Practice
	Short description: Surgical history and examination, Patient communication and professional conduct, role of a surgeon in the system of health care
	Literature: required and optional
<b><i>II.</i></b>	Preoperative Preparation, Postoperative Care, Postoperative Complications
	Short description: Management of the preoperative patient, risk assessment and management, patient monitoring, drain monitoring, mineral disbalance correction, blood transfusions, mechanical, systematic and infectious postoperative complications management
	Literature: required and optional
<b><i>III.</i></b>	Title: Wound Healing, Inflammation, Infection, and Antimicrobial Therapy in Surgery
	Short description: Biological principles of wound healing management and infection in surgery
	Literature: required and optional
<b><i>IV.</i></b>	Title: Fluid, Electrolyte, & Acid-Base Disorders, Surgical Metabolism & Nutrition
	Short description: Electrolyte disorders in surgery, principles of metabolism in surgery
	Literature: required and optional
<b><i>V.</i></b>	Title: Management of the injured patient, Burns & Other Thermal Injuries
	Short description: Surgical role in acutely injured patient, surgical treatment of burns
	Literature: required and optional
<b><i>VI.</i></b>	Title: Breast Disorders, Thoracic Wall, Pleura, Mediastinum, & Lung, Surgical Treatment of Acquired Cardiac Disease, Esophagus & Diaphragm
	Short description: Cardiothoracic surgery module
	Literature: required and optional
<b><i>VII.</i></b>	Title: The Acute Abdomen, Peritoneal Cavity, Stomach & Duodenum, Liver & Portal Venous System, Biliary Tract, Pancreas, Spleen, Appendix, Small Bowel, Large Intestine, Anorectum,
	Short description: A bdominal surgery module
	Literature: required and optional
<b><i>VIII.</i></b>	Title: Hernias & Other Lesions of the Abdominal Wall
	Short description: General surgery module
	Literature: required and optional
<b><i>IX.</i></b>	Title: Arteries, Veins & Lymphatics
	Short description: Vascular surgery module
	Literature: required and optional
<b><i>X.</i></b>	Title: Plastic & Reconstructive Surgery, Hand Surgery
	Short description: Plastic surgery module
	Literature: required and optional
<b><i>XI.</i></b>	Title: Organ Transplantation
	Short description: Surgical principles of transplantation
	Literature: required and optional