

Name of the course	Emergency Medicine with Clinical Rotation			Code	MSE610
Type of study program:	Integrated university study program, Medicine			Year of study:	6
Credits (ECTS):	6	Semester:	XII	Number of hours per semester (l+s+e)	100 (0+20+80)
Status of the course:	obligatory	Preconditions:	Passed all exams of the 5 th year	Comparative conditions:	/
Access to course:	Sixth year students			Hours of instructions:	According to schedule
Course teacher:	Mirko Mihalj, MD, PhD				
Consultations:	As agreed with the students				
E-mail address and phone number:	Mirko.mihalj@mef.sum.ba				
Associate teachers	Boris Matić,MD; Kristina Šimović MD				
Consultations:	As agreed with the students				
E-mail address and phone number:					
The aims of the course:	The main goal of the Emergency Medicine with Clinical Rotation is to acquaint students with the most common emergencies and how to deal with them. Also, upgrading knowledge of the emergencies acquired in the previous courses during the practical work, with an emphasis on differential diagnosis and the latest treatment algorithms.				
Learning outcomes (general and specific competences):	<ul style="list-style-type: none"> • Applying the basics of cardiopulmonary resuscitation. Understanding the causes, pathophysiological events, and disposing algorithms. • Understanding the pathophysiological events in the trauma and the way of treating traumatized patients. Applying the venous path setting, selection of fluids for volume compensation, respiratory support, and analgesia. • Remember the way of treating patients with drowning, electric shock, heat stroke, and freezing. • Understanding the pathophysiology and algorithm of treating sepsis and septic shock patients. • Types of allergy reactions with special reference to the anaphylactic reaction and shock. • Remembering the types of poisoning and ways of treatment. • Understanding the causes and types of choking and how to treat it. • Understanding the pathophysiology and treatment of acute pain • Remembering the causes of bleeding from the gastrointestinal tract. • Describing conditions in the upper and lower respiratory tract: clinical picture, differential diagnosis and treatment methods • Evaluation of acute chest pain. Life-threatening heart rhythm disorders. Understanding the causes and the ways of treatment. • Remembering acute metabolic disorders and how to approach them • Applying the ways of diagnosing and treating patients with cerebrovascular insults and consciousness disorders. • Describing emergency gynecological conditions, diagnosis and treatment • Short overview of emergency pediatric conditions. 				
Course content (Syllabus):	The Emergency Medicine with Clinical Rotation course consists in total of 100 hours, i.e. 80 hours of exercises – practical work with supervision, and 20 hours of seminars.				
Format of instruction (mark in bold)	Lectures	Exercises	Seminars	Independent assignments	
	Consultations	Work with mentor	Field work	Other	
Student responsibilities	Students are required to attend classes. It is allowed to be absent from 20% of classes justifiably.				

Screening student work (mark in bold)	Class attendance	Class participation	Seminar essay	Practical training
	Oral exam	Written exam	Continuous assessment	Essay
Detailed evaluation within a <i>European system of points</i>				
STUDENTS RESPONSIBILITIES	HOURS	PROPORTIONS OF ECTS CREDITS	PROPORTIONS OF GRADE	
Class attendance and participation	20	0.7	0%	
Practical training and work with supervision	80	2.65	0%	
Oral and practical exam	80	2.65	100%	
Total	180	6	100%	
Further clarification:				
<p>The course Emergency Medicine with Clinical Rotation exam is carried out in front of the Course teacher and consists of an oral and practical part.</p> <p>Conditions for the exam approach are a certificate of regular attendance (exercises and seminars), and a filled and signed catalogue of clinical skills by a mentor and a student as evidence of a completed Emergency medicine internship.</p> <p>Final evaluation is descriptive (pass/fail).</p>				
Required literature:	<ul style="list-style-type: none"> - European Resuscitation Council Guidelines for Resuscitation 2021. - Powerpoint presentations (notes from lectures) 			
Optional literature:				
Additional information about the course	<p>Monitoring methods of teaching quality:</p> <ul style="list-style-type: none"> - student questionnaire - quality analysis by students and teachers - exam results analysis - report of the office for teaching quality 			

Annexes: calendar classes

The number of teaching units	TOPICS AND LITERATURE
I.	Title: Cardiopulmonary reanimation Short description: The Basics of Cardiopulmonary Resuscitation in adults and children Literature: required
II.	Title: Management of severely traumatized patients Short description: First aid and management. Pathophysiological events in trauma and methods of treatment Literature: required
III.	Title: Drowning, electric shock, heat stroke, freezing Short description: Pathophysiological events and methods of treatment Literature: required
IV.	Title: Sepsis and Septic shock Short description: Sepsis and Septic shock pathophysiology and algorithm of treatment Literature: required
V.	Title: Anaphylactic shock Short description: Types of allergic reactions with special reference to anaphylactic reaction Literature: required
VI.	Title: Poisoning Short description: Types of poisoning and management Literature: required
VII.	Title: Suffocation Short description: Causes, differential diagnosis and ways of treatment Literature: required
	Title: Acute pain

VIII.	Short description: Causes and ways of treatment
	Literature: required
IX.	Title: Gastrointestinal bleeding
	Short description: Causes and case report
	Literature: required
X.	Title: The bleeding from the respiratory tract
	Short description: Clinical picture, differential diagnosis and methods of treatment
	Literature: required
XI.	Title: Acute Metabolic Disorders
	Short description: Recognition and differential diagnosis
	Literature: required
XII.	Title: Acute Abdomen
	Short description: Differential diagnosis and methods of treatment
	Literature: required
XIII.	Title: Chest pain and life-threatening heart rhythm disorders
	Short description: Differential diagnosis and ways of disposing
	Literature: required
XIV.	Title: Hypertensive crisis, CVI, coma
	Short description: Diagnosis and treatment
	Literature: required
XV.	Title: Emergency Gynecological Bleeding
	Short description: Diagnosis and treatment
	Literature: required
XVI.	Title: Emergency Pediatric Conditions
	Short description: Diagnosis and treatment
	Literature: required