

<b>MODULE - EMERGENCY MEDICINE</b>	
<b>GENERAL INFORMATION</b>	
Course coordinator	Professor Robert Steiner, MD, PhD
Assistant/Associate	Professor Silva Butković-Soldo, MD, PhD Professor Dunja Degmečić, MD, PhD Professor Josip Galić, MD, PhD Professor Vesna Milas, MD, PhD Professor Andrijana Včeva, MD, PhD Professor Siniša Šijanović, MD, PhD Professor Davor Jančuljak, MD, PhD Professor Silvio Mihaljević, MD, PhD Professor Kristina Selthofer-Relatić, MD, PhD Assoc. Prof. Vladimir Šišljagić, MD, PhD Assoc. Prof. Ivan Lovrić, MD, PhD Assoc. Prof. Josip Barać, MD, PhD Assoc. Prof. Tatjana Bačun, MD, PhD Assoc. Prof. Goran Kondža, MD, PhD Assoc. Prof. Ljiljana Perić, MD, PhD Assoc. Prof. Ivana Prpić-Križevac, MD, PhD Assoc. Prof. Suzana Mimica, MD, PhD Asst. Prof. Sanda Škrinjarić-Cincar, MD, PhD Asst. Prof. Dubravka Mihaljević, MD, PhD Asst. Prof. Tatjana Rotim, MD, PhD Asst. Prof. Tajana Turk, MD, PhD Asst. Prof. Silvija Canecki-Varžić, MD, PhD Asst. Prof. Lana Maričić, MD, PhD Asst. Prof. Tihana Šimundić, MD, PhD Asst. Prof. Ozana Katarina Tot, MD, PhD Asst. Prof. Stjepan Jurić, MD, PhD Asst. Prof. Marko Stupin, MD, PhD Asst. Prof. Sandra Šarić, MD, PhD Asst. Prof. Bojan Sudarević, MD, PhD Asst. Prof. Ivana Haršanji Drenjančević, MD, PhD Darjan Kardum, MD, PhD Ivan Koprivčić, MD, PhD Matej Šapina, MD, PhD Damir Mihić, MD, PhD Domagoj Loinjak, MD, PhD Oliver Pavlović, MD, PhD Andreja Bartulić, MD, PhD Vlasta Oršić Frič, MD, PhD Ivana Tolj, MD, PhD
Study Programme	Integrated undergraduate and graduate university study of Medicine
Status of the course	Mandatory
Year of study, semester	5 <sup>th</sup> year, 9 <sup>th</sup> semester

ECTS	4
Workload (hours)	Lectures (29); Seminars (21)
Expected number of students	70
<b>COURSE DESCRIPTION</b>	
<b>Course objectives</b>	
The aim of the course is to acquaint students with basic knowledge, skills and new insights from the most common emergency conditions from all branches of medicine and to show them their importance in everyday clinical work.	
<b>Enrolment requirements and entry competencies</b>	
Enrolled in the fifth year of medicine, there are no other, special conditions for enrolling in the course.	
<b>Learning outcomes at the Programme level</b>	
<b>1.2, 2.2, 2.3, 3.1</b>	
<b>Learning outcomes (5-10)</b>	
After successfully completing the course, students will be able to: <ol style="list-style-type: none"> <li>1. Assess the importance of acquiring knowledge in the field of emergency medicine for future daily clinical work;</li> <li>2. Integrate and interrelate facts and previous knowledge about emergency situations from various fields of medicine;</li> <li>3. Determine priorities in the diagnostic and therapeutic approach and treatment of acutely ill patients;</li> <li>4. Predict the course of diagnostic and therapeutic care of an acutely ill patient based on acquired knowledge;</li> <li>5. Critically judge the influence of the way emergency care is done on the entire course of patient treatment.</li> </ol>	
<b>Course content</b>	
Lectures: <ol style="list-style-type: none"> <li>1. Introduction to the teaching course, history of emergency medicine</li> <li>2. Basic life support</li> <li>3. Advanced life support</li> <li>4. Shock</li> <li>5. Heart rhythm disorders in emergency medicine</li> <li>6. Differential diagnosis of dyspnea</li> <li>7. Differential diagnosis of chest pain</li> <li>8. Acute coronary syndrome</li> <li>9. Acute aortic syndrome</li> <li>10. Emergency conditions in rheumatology and immunology</li> <li>11. Acute kidney injury</li> <li>12. Emergencies in diabetology</li> <li>13. Differential diagnosis of abdominal pain</li> <li>14. Acute gynecological events</li> <li>15. Acute obstetric events</li> <li>16. Acute abdomen in clinical practice</li> <li>17. Acute kidney and urinary tract diseases</li> </ol>	

18. Disturbance of the state of consciousness: classification and approach
19. Cerebrovascular insult
20. Approach to a patient with a headache
21. Vertigo: approach and treatment
22. Acute psychosis and other psychiatric emergencies
23. Acute febrile condition in adults
24. Acute febrile condition in children
25. Emergencies in children
26. Polytrauma
27. Emergencies in ophthalmology
28. Emergencies in otorhinolaryngology
29. Acute poisoning

Seminars:

1. Resuscitation of children
2. Ethical issues in resuscitation
3. Hypovolemia and principles of fluid replacement
4. Massive bleeding and transfusion of blood products
5. Respiratory insufficiency and mechanical ventilation
6. Sepsis and septic shock
7. Deep vein thrombosis and pulmonary embolism
8. Acute heart failure
9. Hypertensive urgency and emergence
10. Treatment of anaphylaxis in the emergency department
11. Electrolyte and acid-base status disorders
12. Hemodialysis treatment in emergency medicine
13. Thyrotoxicosis, myxedema and Addison's crisis
14. Bleeding from the digestive system
15. Acute liver failure
16. Acute scrotum and acute genital diseases
17. Syncope and presyncope: approach to the patient
18. Epileptic seizure and status
19. Wound: treatment and treatment
20. Fractures and dislocations: recognition and treatment
21. Ultrasound in emergency medicine

**Mode of teaching**

Lectures and Seminars

**Student obligations**

Students are expected to attend all class sessions, as well as to take all the examinations. However, they are allowed for excused absences, totalling 30% of all classes.

**Monitoring student work (*alignment of learning outcomes, teaching methods, and grading*)**

Teaching activity	ECTS	Learning outcome	Student activity	Assessment methods	Grade points	
					Min.	Max.
Class attendance	0,5	1-5	Class attendance	Evidence sheet; evaluation	5	10

Seminar work	0,5	1-5	Preparing the oral presentation of the seminar	Evaluation of the oral presentation of the seminar	5	10
Final exam	3	1-5	Learning for the written exam	Written exam	40	80
<b>Total</b>	<b>4</b>				<b>50</b>	<b>100</b>

*Evaluation of the final exam:*

Percentage of accurate answers provided (%)	Grade points
60.00-64.99	40
65.00-69.99	45
70.00-74.99	50
75.00-79.99	55
80.00-84.99	60
85.00-89.99	67
90.00-94.99	75
95.00-100.00	80

*Calculation of final grade:*

Based on the total sum of the points awarded during the course and the final exam, the final grade is determined according to the following distribution:

A – excellent (5): 90-100 grade points; B – very good (4): 70-79,99 grade points; C – good (3): 60-69,99 grade points; D – sufficient (2): 50-59,99 grade points

#### **Required reading (available in the library and through other media)**

Title	Number of copies in the library	Availability through other media
1. Vladimir Gašparović i suradnici. Hitna medicina, 2., dopunjeno i obnovljeno izdanje. Medicinska naklada, Zagreb, 2019.	5	

#### **Additional reading**

-

#### **Course evaluation procedures**

Anonymous, quantitative, standardized student survey providing feedback on the course as well as on the work of course coordinators and their assistants/associates is being conducted by the QA Office of the Faculty of medicine Osijek.

#### **Note /Other**

E-learning does not count towards course contact hours, but is being used in teaching and comprises links to various web pages, as well as video and audio materials available on web pages.