Medicinski fakultet u Rijeci

IZVEDBENI NASTAVNI PLAN
2026/2027

Za kolegij

Emergency Medical Conditions I

Studij:	**Medical Studies in English (R)** Sveučilišni integrirani prijediplomski i diplomski studij
Katedra:	**Katedra za hitnu medicinu**
Nositelj kolegija:	**doc. prim.dr.sc. Pavletić Martina, dr. med.**
Godina studija:	**4**
ECTS:	**7**
Stimulativni ECTS:	**0 (0.00%)**
Strani jezik:	**Mogućnost izvođenja na stranom jeziku**

Podaci o kolegiju:

Emergency Medical Condition I is a compulsory course on the 4th year of the University Integrated Undergraduated and Graduated Study of Medicine in English. It consists of 25 hours of lectures, 8 hours of seminars and 96 hours of practicals, totally 129 hours (7 ECTS credits). Individual thematic units of the course are covered in full by the teacher, while the basis for work during seminars and exercises is independent learning, meaning that prior preparation of the student is necessary. During the exercises, students connect the basic preclinical knowledge acquired so far with clinical application. Lectures and seminars are held at the University lectures halls in CHC Sušak location, and practical are held at the Emergency Department (location Sušak and Rijeka).

Course objectives: The aim of the course is to acquire basic knowledge and skills that are necessary for the recognition, care and treatment of the most common life-threatening emergencies. Particular emphasis is placed on training students to recognize potentially life-threatening patients as well as approach life-threatening patients and care for the critically ill. Also, the goal of the course is for students to master the method of emergency patient triage, taking a targeted history and physical status, and to master the basic diagnostic and therapeutic procedures in an emergency patient. It is necessary to master the material of pre-clinical courses and clinical propaedeutics.

The course content is as follows:

• Introduction to Emergency Medicine

• Organization of the Emergency Department

• Triage in Emergency Medicine

• Bedside Ultrasound

• Approach to the Critically Ill Patient

• Procedural Analgesia and Sedation

• Shock

• Approach to the Patient with Chest Pain, Dyspnea, Abdominal Pain, and Altered State of Consciousness

• Transport of critically ill patient (Intra-Hospital and Inter-Hospital)

Popis obvezne ispitne literature:

1. Vesna Degoricija i sur. Emergency medicine, MMM Marketing, Zagreb 2011.

Popis dopunske literature:

1. Tintinalli JE i sur. Tintinalli's Emergency medicine, Mc Graw Hill, 9-to izdanje, 2020. god.
2. Brown AFT i sur. Emergency medicine: diagnosis i management, CRC Press, 8 izdanje, 2021.

Nastavni plan:

Seminari popis (s naslovima i pojašnjenjem):

S1 Clinical scenarios 1

Through case presentations, learn about the most common changes in the electrocardiogram, the diagnostic method of differential diagnosis of chest pain, and the necessary skills for treating the above-mentioned emergency conditions

S2 Clinical scenarios 2

Through case presentations, learn about the differential diagnosis of abdominal pain, the ultrasound approach in the initial assessment of the mentioned conditions, and the final treatment of the patient

Predavanja popis (s naslovima i pojašnjenjem):

P1. Introduction to the course and historical overview.

Define the objectives of the course Emergency Medicine I. List the historical facts of the development of emergency medicine.

P2. Organization of the Emergency department.

Recognize the role of the emergency medicine department within the hospital system.

P3 Triage system.

Be familiar with the triage systems of the emergency patient. List the triage scales. Explain the ATLS triage system.

P4-5. Monitoring in emergency medicine.

Explaine the purpose and operation of the electrocardiograph, pulse oximeter, capnometer/capnograph, and devices for non-invasive and invasive blood pressure measurement.

P6-7. Approach to the critically ill patient.

Recognize the critical patient. Become familiar with the ABCDE approach to the critically ill patient.

P8-9. Advanced Life Support (ALS). eCPR.

To become familiar with advanced life support techniques in accordance with the current guidelines of leading international associations.

P10-11. Shock including sepsis.

P12. Approach to a bleeding patient. Massive transfusion.

P13. Algorithm for the management of anaphylaxis and anaphylactic shock.

P14-15 Disorders of consciousness including syncope.

P16. Poisoning.

P17-18. Approach to the patient with chest pain.

P19-20 Approach to the patient with dyspnea.

P21-22. Approach to the patient with abdominal pain.

P23-24. Periprocedural sedation and analgesia

To become familiar with the approach to pain management and periprocedural sedation in emergency medicine.

Vježbe popis (s naslovima i pojašnjenjem):

V1 Approach to the emergency patient. Focused history and clinical examination.

V2 Diagnostic pathway of the critically ill patient. Analysis of laboratory work-up in the patient's clinical context. Application of bedside ultrasound.

V3 Approach to the patient with chest pain.

V4 Approach to the patient with shortness of breath.

V5 Approach to the hemodynamically unstable patient. Approach to the patient with suspected sepsis.

V6 Approach to the patient with abdominal pain.

V7 Approach to the patient with suspected bleeding.

V8 Approach to the patient with altered state of consciousness. Poisoning.

Obveze studenata:

Students are required to attend regularly and actively participate in all forms of teaching. Students must attend at least 70% of all forms of teaching (lectures, seminars and practicals) and are required to participate in all planned forms of knowledge and practical skills testing. Students may miss 30% of classes solely for health reasons, which can be justified by a doctor's note. If a student misses more than 30% of classes, they cannot continue to follow the course and lose the opportunity to take the final exam. They have thus collected 0 ECTS points and are graded F.

Successful completion of seminars and exercises requires prior preparation of the student. To work with patients during exercises, the student must have prescribed work clothes (white coat) and a stethoscope. The time and method of student consultations are listed with the contact information of the course coordinator and asistants. Student behavior must be in accordance with the appropriate code of ethics.

Ispit (način polaganja ispita, opis pisanog/usmenog/praktičnog dijela ispita, način bodovanja, kriterij ocjenjivanja):

ECTS point grading system:

Student assessment is carried out in accordance with the current **University of Rijeka Study Regulations and the Student Regulations at the Faculty of Medicine Rijeka** (adopted by the Faculty Council of the Faculty of Medicine Rijeka).

Students are graded using ECTS (A-E) and a numerical system (1-5). Grading in the ECTS system is performed by absolute distribution and according to graduation grading criteria.

Student work is evaluated and graded during classes and at the final exam. Out of a total of 100 credits, a student can achieve a maximum of 50 credits during classes and 50 credits at the final exam. The final grade is the sum of the grade credits achieved during classes and at the final exam.

During classes, the following will be evaluated (maximum 50 credits):

a) Written test (up to 40 credits, minimum 20 credits)

b) Attendance at classes (up to 10 credits)

Of the maximum 50 grade credits that can be achieved during classes, a student must collect a minimum of 20 grade credits in the written preliminary exam in order to take the final exam.

Students earn grade credits by actively participating in classes, completing assigned tasks, taking the mandatory preliminary exam, and taking the final exam in the following manner:

1. **During the course, *the following will be assessed (maximum 50 credits):***

a) Compulsory preliminary exam (up to 40 credits)

During classes, all students are required to take a written test, which can be worth a maximum of 40 credits (range 20-40). The test is held on the last day of classes in written form, has 50 questions and contains lecture material (P1-24). The criterion for obtaining grade credits is 50% or more of the questions answered correctly. A passed test is valid for the current academic year.

In case of failure, a student can take the test two more times (3 times in total). The second test will result in a lower grade than the grade obtained in the test. If the third test is successful, the student can receive a maximum grade of sufficient.

A student who does not achieve at least 20 grade credits after the third test or misses more than 30% of each form of teaching (lectures, seminars, exercises) during classes has not satisfied the course, and is given a grade of failed (F) and must re-enroll in the course.

Table 1. Evaluation of the written mandatory preliminary exam:

The number of positive answers in the test (50 questions) is scored in the range of 0-40 according to the table:

Number of correct answers	Grade	Credits
45 - 50	Excellent (5)	40
38 - 44	Very good (4)	35
30 - 37	Good (3)	30
25 - 29	Sufficient (2)	20
0 - 24	insufficient (1)	0

b) Class attendance (up to 10 credits)

Class attendance	Credits
90%-100%	10
80%-89,9%	7
80%-79,9%	4

2. Final exam (maximum 50 credits)

During the final exam, the the mastery of the entire material provided for in the course curriculum is checked. In the current academic year, a student may take the final exam a maximum of three times.

The final exam is taken in the form of a written exam.

Who can take the final exam:

Students who have scored 20 or more credits in the written preliminary exam must take the final written exam, where they can score a maximum of 50 credits (ranging from 25-50).

Who cannot take the final exam:

Students who scored less than 20 credits on the written test during classes, as well as students who missed more than 30% of classes, are not entitled to take the final exam (they must enroll in the course next year).

The mandatory written exam consists of 50 questions and carries 50 grade credits (range 25-50). The criterion for obtaining grade credits is 50% of correctly answered questions. A student who does not meet the minimum criteria in the written part of the final exam will have to retake the final exam in the following exam periods.

The credits earned in the mandatory written exam (maximum 50 credits) are converted into grade credits according to the criteria listed in Table 2:

Table 2. Evaluation of the written part of the final exam:

Number of correct answers	Grade	Grade in ECTS system	Credits
45 - 50	Excellent (5)	A	50
38 – 44	Very good (4)	B	40
30 – 37	Good (3)	C	30
25 – 29	Sufficient (2)	D	20
0 - 24	insufficient (1)	F	0

Formation of the final grade:

The final grade is the sum of the grade credits achieved during the course (written preliminary exam minimum 20 credits and class attendance) and in the final exam (maximum 50 credits). Grading in the ECTS system is done by absolute distribution, i.e. based on the final achievement in the following way:

Percentage	Sum of the grade credits (written preliminary exam, class attendance, final exam)	Grade	Grade in ECTS system
90%-100%	90-100	Excellent (5)	A
75%-89,9%	75-89	Very good (4)	B
60%-74,9%	60-74	Good (3)	C
50%-50,9%	50-59	Sufficient (2)	D
0 – 49,9%	0-49	insufficient (1)	F

Retake of the written preliminary exam

A student may take a retake of written preliminary exam if they have not met the minimum criteria for obtaining credits and if they have been absent for a justified reason (a doctor's note is required).

Ostale napomene (vezane uz kolegij) važne za studente:

Academic Integrity

Respect for the principles of academic integrity is expected from both teachers and students in accordance with the Code of Ethics of the University of Rijeka.

Information about the course

All information related to the teaching, mandatory preliminary exam and final exam will be provided to students in the introductory lecture.

The teaching content and all information related to the course, as well as exam dates, can be found on the website of the Department of Anesthesiology, Reanimatology, Emergency and Intensive Care Medicine.

Contacting teachers

Contacting teachers should be done in person and/or by email, always from the uniri.domain. Enquiries sent from other domains will not be answered.

Asst.prof. Martina Pavletić, MD, PhD; e-mail: martinapp@medri.uniri.hr

Mate Lerga, MD; e-mail: mate.lerga@medri.uniri.hr

Maja Materljan, MD; e-mail: maja.materljan@medri.uniri.hr

Nataša Mavrinac, MD; e-mail: natasa.mavrinac@medri.uniri.hr

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Medjit Smailji, MD; e-mail: medjit.smailji@medri.uniri.hr

SATNICA IZVOĐENJA NASTAVE 2026/2027

Emergency Medical Conditions I

Predavanja (mjesto i vrijeme / grupa)	**Vježbe** (mjesto i vrijeme / grupa)	**Seminari** (mjesto i vrijeme / grupa)
05.10.2026		
P1. Introduction to the course and historical overview.: • Klinika za infektivne bolesti (14:00 - 17:00) [1482] ○ EMCI- P2. Organization of the Emergency department.: • Klinika za infektivne bolesti (14:00 - 17:00) [1482] ○ EMCI- P3 Triage system.: • Klinika za infektivne bolesti (14:00 - 17:00) [1482] ○ EMCI-		
doc. prim.dr.sc. Pavletić Martina, dr. med. [1482]		
06.10.2026		
P4-5. Monitoring in emergency medicine.: • Klinika za infektivne bolesti (14:00 - 17:00) [1482] ○ EMCI- P13. Algorithm for the management of anaphylaxis and anaphylactic shock.: • Klinika za infektivne bolesti (14:00 - 17:00) [1482] ○ EMCI-		
doc. prim.dr.sc. Pavletić Martina, dr. med. [1482]		
15.10.2026		
P6-7. Approach to the critically ill patient.: • P12 - KBC SUŠAK (16:00 - 20:00) [1482] ○ EMCI- P8-9. Advanced Life Support (ALS). eCPR.: • P12 - KBC SUŠAK (16:00 - 20:00) [1482] ○ EMCI-		
doc. prim.dr.sc. Pavletić Martina, dr. med. [1482]		
26.10.2026		

P14-15 Disorders of consciousness including syncope.:
• Klinika za infektivne bolesti (15:00 - 20:00) [1482]
  ○ EMCI-
 	
P16. Poisoning.:
• Klinika za infektivne bolesti (15:00 - 20:00) [1482]
  ○ EMCI-
 	
P23-24. Periprocedural sedation and analgesia:
• Klinika za infektivne bolesti (15:00 - 20:00) [1482]
  ○ EMCI-		

doc. prim.dr.sc. Pavletić Martina, dr. med. [1482]		
27.10.2026		

P17-18. Approach to the patient with chest pain.:
• Klinika za infektivne bolesti (15:30 - 19:30) [1482]
  ○ EMCI-
 	
P19-20 Approach to the patient with dyspnea.:
• Klinika za infektivne bolesti (15:30 - 19:30) [1482]
  ○ EMCI-		

doc. prim.dr.sc. Pavletić Martina, dr. med. [1482]		
28.10.2026		
P21-22. Approach to the patient with abdominal pain.: • P12 - KBC SUŠAK (17:00 - 19:00) [1482] ○ EMCI-		
doc. prim.dr.sc. Pavletić Martina, dr. med. [1482]		
29.10.2026		

P10-11. Shock including sepsis.:
• P12 - KBC SUŠAK (11:30 - 14:30) [1482]
  ○ EMCI-
 	
P12. Approach to a bleeding patient. Massive transfusion.:
• P12 - KBC SUŠAK (11:30 - 14:30) [1482]
  ○ EMCI-		

doc. prim.dr.sc. Pavletić Martina, dr. med. [1482]		
02.11.2026		

		S1 Clinical scenarios 1: • Klinika za infektivne bolesti (15:00 - 19:00) [1482] ◦ EMCI-1
doc. prim.dr.sc. Pavletić Martina, dr. med. [1482]		
03.11.2026		
		S2 Clinical scenarios 2: • Klinika za infektivne bolesti (15:00 - 19:00) [1482] ◦ EMCI-2
doc. prim.dr.sc. Pavletić Martina, dr. med. [1482]		
05.11.2026		
	V1 Approach to the emergency patient. Focused history and clinical examination.: • OHBP Sušak (20:00 - 08:00) [1975] ◦ EMCI-1D	
naslovna asistentica Mavrinac Nataša, dr. med. [1975]		
08.11.2026		
	V2 Diagnostic pathway of the critically ill patient. Analysis of laboratory work-up in the patient's clinical context. Application of bedside ultrasound.: • OHBP Sušak (08:00 - 20:00) [1975] ◦ EMCI-1D	
naslovna asistentica Mavrinac Nataša, dr. med. [1975]		
10.11.2026		
		S1 Clinical scenarios 1: • Klinika za infektivne bolesti (15:00 - 19:00) [1482] ◦ EMCI-1
doc. prim.dr.sc. Pavletić Martina, dr. med. [1482]		
11.11.2026		
		S2 Clinical scenarios 2: • Klinika za infektivne bolesti (15:00 - 19:00) [1482] ◦ EMCI-2
doc. prim.dr.sc. Pavletić Martina, dr. med. [1482]		
12.11.2026		
	V1 Approach to the emergency patient. Focused history and clinical examination.: • OHBP Rijeka (20:00 - 08:00) [2153] ◦ EMCI-1C	
naslovna asistentica Petrić Tamara, dr. med. [2153]		

13.11.2026		
	V1 Approach to the emergency patient. Focused history and clinical examination.: • OHBP Sušak (20:00 - 08:00) [3580] ○ EMCI-2A	
naslovna asistentica Dumić Dijana, dr.med. [3580]		
14.11.2026		
	V1 Approach to the emergency patient. Focused history and clinical examination.: • OHBP Sušak (08:00 - 20:00) [1482] ○ EMCI-2B	
doc. prim.dr.sc. Pavletić Martina, dr. med. [1482]		
15.11.2026		
	V2 Diagnostic pathway of the critically ill patient. Analysis of laboratory work-up in the patient's clinical context. Application of bedside ultrasound.: • OHBP Sušak (20:00 - 08:00) [1482] ○ EMCI-2B	
doc. prim.dr.sc. Pavletić Martina, dr. med. [1482]		
16.11.2026		

	V2 Diagnostic pathway of the critically ill patient. Analysis of laboratory work-up in the patient's clinical context. Application of bedside ultrasound.:
	• OHBP Sušak (08:00 - 20:00) [1975]
	  ○ EMCI-1C
	• OHBP Sušak (20:00 - 08:00) [3580]
	  ○ EMCI-2A	

naslovna asistentica Dumić Dijana, dr.med. [3580] · naslovna asistentica Mavrinac Nataša, dr. med. [1975]		
17.11.2026		
	V3 Approach to the patient with chest pain.: • OHBP Sušak (20:00 - 08:00) [1975] ○ EMCI-1D	
naslovna asistentica Mavrinac Nataša, dr. med. [1975]		
23.11.2026		
	V4 Approach to the patient with shortness of breath.: • OHBP Sušak (20:00 - 08:00) [294] ○ EMCI-1D	
naslovna asistentica Otočan Marinka, dr. med. [294]		
28.11.2026		
	V1 Approach to the emergency patient. Focused history and clinical examination.: • OHBP Sušak (08:00 - 20:00) [1975] ○ EMCI-1A	
naslovna asistentica Mavrinac Nataša, dr. med. [1975]		
29.11.2026		

	V2 Diagnostic pathway of the critically ill patient. Analysis of laboratory work-up in the patient's clinical context. Application of bedside ultrasound.: • OHBP Sušak (08:00 - 20:00) [293] ○ EMCI-1A	
naslovni asistent Lerga Mate, dr. med. [293]		

Popis predavanja, seminara i vježbi:

PREDAVANJA (TEMA)	Broj sati	Mjesto održavanja
P1. Introduction to the course and historical overview.	1	Klinika za infektivne bolesti
P2. Organization of the Emergency department.	1	Klinika za infektivne bolesti
P3 Triage system.	1	Klinika za infektivne bolesti
P4-5. Monitoring in emergency medicine.	2	Klinika za infektivne bolesti
P6-7. Approach to the critically ill patient.	2	P12 - KBC SUŠAK
P8-9. Advanced Life Support (ALS). eCPR.	2	P12 - KBC SUŠAK
P10-11. Shock including sepsis.	2	P12 - KBC SUŠAK
P12. Approach to a bleeding patient. Massive transfusion.	1	P12 - KBC SUŠAK
P13. Algorithm for the management of anaphylaxis and anaphylactic shock.	1	Klinika za infektivne bolesti
P14-15 Disorders of consciousness including syncope.	2	Klinika za infektivne bolesti
P16. Poisoning.	1	Klinika za infektivne bolesti
P17-18. Approach to the patient with chest pain.	2	Klinika za infektivne bolesti
P19-20 Approach to the patient with dyspnea.	2	Klinika za infektivne bolesti
P21-22. Approach to the patient with abdominal pain.	2	P12 - KBC SUŠAK
P23-24. Periprocedural sedation and analgesia	2	Klinika za infektivne bolesti

VJEŽBE (TEMA)	Broj sati	Mjesto održavanja
V1 Approach to the emergency patient. Focused history and clinical examination.	12	OHBP Rijeka OHBP Sušak
V2 Diagnostic pathway of the critically ill patient. Analysis of laboratory work-up in the patient's clinical context. Application of bedside ultrasound.	12	OHBP Sušak
V3 Approach to the patient with chest pain.	12	OHBP Sušak
V4 Approach to the patient with shortness of breath.	12	OHBP Sušak
V5 Approach to the hemodynamically unstable patient. Approach to the patient with suspected sepsis.	12	
V6 Approach to the patient with abdominal pain.	12	
V7 Approach to the patient with suspected bleeding.	12	
V8 Approach to the patient with altered state of consciousness. Poisoning.	12	

SEMINARI (TEMA)	Broj sati	Mjesto održavanja
S1 Clinical scenarios 1	4	Klinika za infektivne bolesti
S2 Clinical scenarios 2	4	Klinika za infektivne bolesti

ISPITNI TERMINI (završni ispit):