

SYLLABUS 2019-2025

Module/course name:	EMERGENCY MEDICINE		Module code	LK.3.F.001
Faculty:	I Faculty of Medicine with Dentistry Division II Faculty of Medicine with English Division			
Major:	Medical			
Specialty:				
Level of study:	I (Bachelor studies) <input type="checkbox"/> II (Master studies) <input type="checkbox"/> integrated Master studies X III (Doctoral studies) <input type="checkbox"/>			
Mode of study :	full-time X part-time (extramural)			
Year of study:	I <input type="checkbox"/> II <input type="checkbox"/> III X IV <input type="checkbox"/> V <input type="checkbox"/> VI <input type="checkbox"/>	Semester :	1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 X 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/>	
Module/course type:	obligatory X elective <input type="checkbox"/>			
Language of instruction:	Polish <input type="checkbox"/> English X			
Form of education	Hours			
Lecture				
Seminar	22			
Laboratory class	53			
E-learning				
Practical class				
Internship				

Student's work input (participation in class, preparation, evaluation, etc.)	Student's hourly workload
1. In class	75
2. Student's own work	45
1 Preparation for class	15
2 Preparation for partials and finals	30
Summary of the student's workload	120
ECTS points for module/course	4

Educational Objectives: After the course student is

1. able to correctly apply basic and advanced life techniques in adults, children and infants.
2. able to recognize signs and symptoms of life threatening conditions of medical and surgical basis
3. able to correctly perform physical examination of a patient whose life is threatened
4. able to apply correct emergency protocols and resuscitate techniques in patients with polytrauma
5. able to apply correct emergency protocols based on disaster medicine principles
6. able to fill in necessary documentation in case of a patient whose life is threatened

The matrix of learning outcomes for module/ subject with reference to verification methods of the intended educational outcomes and forms of instruction:

Learning outcome	A student who has obtained a credit for the module/course has	Methods of verifying the	Form of
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code	the knowledge/skill to:	achievement of the intended learning outcomes:	instruction * provide the symbol
W01 (C.W29.)	knows the definition and pathophysiology of shock, with special consideration to differentiation of shock causes, and multiorgan failure	Effects in the area of knowledge are regularly checked by written examinations (reports, short structured questions and multiple choice (MCQ)) and oral.	S/W/Ć
W02 (C.W34.)	knows the clinical manifestations of the most common diseases of systems and organs, metabolic diseases and water-electrolyte and acid-base balance		
W03 (C.W44.)	knows groups of medicinal drugs which, when overused, may lead to poisoning		
W04 (C.W45.)	knows the symptoms of most common types of poisoning, including those caused by alcohol, drugs, psychoactive substances, heavy metals and some groups of medicinal drugs		
W05 (C.W46.)	knows the basic principles of diagnostic procedures in case of poisoning		
W06 (E.W3.e)	knows and understands the causes, symptoms, principles of diagnosing and therapeutic procedures of most common children's diseases: acute and chronic stomach pain, vomiting, diarrhea, constipation, bleeding from digestive tract, gastric ulcers and nonspecific disorders of intestines, pancreas disorders, cholestasis and hepatic disorders, other acquired or congenital disorders of the digestive tract:		
W07 (E.W6.)	knows the most common life hazard conditions in children and management strategies in such situations		
W08 (E.W7. i)	knows and understands the causes, symptoms, diagnostic principles and therapeutic procedures in respect to most common internal diseases in adults and their complications: water-electrolyte and acido-basic disturbances, dehydration, hyperhydration, electrolyte disorders, acidosis and alkalosis		
W09 (E.W14.h)	knows and understands causes, symptoms, principles in diagnosing and therapeutic procedures in the most common nervous system disorders, including: craniocerebral traumas, and in particular, brain concussion		
W10 (E.W29.)	knows principles of pain management, including cancer and chronic pain		
W11 (E.W41)	knows and understands the possibilities and limitations of laboratory tests in emergencies		

W12 (F.W1. a, b, c, d)	<p>knows and understands the causes, symptoms, principles of diagnosing and therapeutic management in relation to most common diseases requiring surgical intervention, with consideration to differences associated with young age, including, in particular:</p> <p>acute and chronic disorders of the abdominal cavity,</p> <p>chest disorders,</p> <p>disorders of the head and extremities,</p> <p>bone fractures and organ injuries;</p>		
W13 (F.W7)	knows the current guidelines for circulatory and respiratory resuscitation in newborns, children and adults		
W14 F.W8. (F.W9.)	knows the functioning principles of the integrated national medical rescue system		
W15 F.W13. (F.W14. a)	<p>knows and understands the causes, symptoms, principles of diagnosing and therapeutic procedures in relation to most common disorders of the central nervous system, in the scope of:</p> <p>brain swelling and its consequences, with special consideration of emergencies</p>		
U01 (C.U19.)	interprets toxicology test results		
U02 (E.U14.)	identifies life-threatening conditions		
U03 (E.U15.)	identifies conditions after alcohol, drug and other stimulant abuse		
U04 (E.U29. b, h, i)	<p>can perform basic medical procedures, including:</p> <p>vital signs monitoring using a cardiomonitor, pulsoxymetry,</p> <p>standard ECG at rest with interpretation, electric cardioversion and defibrillation,</p> <p><u>simple trip tests</u> and blood glucose measurements</p>	Learning outcomes in the area of practical skills are tested regularly in the classroom through direct observation of the student carrying out activities	C
U05 (E.U30. a, c)	<p>assists in carrying out of the following medical procedures:</p> <p>transfusion of blood products and blood components,</p> <p>puncture of the pericardial sac,</p>		
U06 (E.U33.)	can implement basic therapeutic procedures in acute poisonings		
U07 (E.U34.)	monitors the condition of patient poisoned with chemicals or drugs		

U08 (E.U36.)	can apply adequate procedures in case of trauma (dressing or immobilization, wound debridement and suturing);		
U09 (E.U37.)	identifies patient's <u>death throes (threats)</u> and certifies death		
U10 (F.U4.)	can perform debridement and closing of a simple wound, apply and change sterile surgical dressing		
U11 (F.U5.)	can insert peripheral venous catheter		
U12 (F.U8.)	performs temporary immobilization of extremity, chooses the immobilization method necessary for standard clinical situations and controls blood supply to the extremity after application of immobilizing dressing		
U13 (F.U9.)	can perform management of internal bleeding		
U14 (F.U10.)	carries out basic resuscitation procedures with the use of automatic external defibrillator and other emergency procedures, provides first aid		
U15 (F.U11.)	acts in accordance with the current advanced life support algorithm		
U16 (F.U21)	assesses the condition of unconscious patient, in accordance with the current international scale score		
U17 (F.U22)	identifies symptoms of growing intracranial pressure		
K01	can converse (<u>conversate?</u>) with patients and treats them with respect	Learning outcomes in the area of attitudes are checked regularly during classes by direct observation of the student during the execution of research tasks.	Ć
K02	can work in a group		
K03	actively participates in classes and behaves appropriately		

EXAMPLES OF METHODS VERIFYING THE ACHIEVEMENT OF THE INTENDED LEARNING OUTCOMES

In terms of knowledge: Oral exam (*non-standardized, standardized, traditional, problem-based*).

Written exam – the student produces/identifies answers (*essay, report; structured short-answer questions /SSQ/; multiple choice questions /MCQ/; multiple response questions /MRQ/; matching test; true/false test; open cloze test*).

In terms of skills: practical exam; Objective Structured Clinical Examination /OSCE/; Mini-CEX (mini – clinical examination); completion of a given assignment; project, presentation.

In terms of social competences: A reflective essay; an extended observation by a supervisor/tutor; 360-degree assessment (feedback from teachers, peers, patients, other co-workers); self-assessment (portfolio included).

Course content: (use keywords referring to the content of each class following the intended learning outcomes):

Lectures: 1. Central nervous system emergencies Epilepsy - Stroke (cerebrovascular accident) - Transient ischaemic attack
 2. Acute coronary syndromes - initial management
 3. International disaster response
 4. The national integrated system of the medical lifesaving
 5. Natural disasters
Seminars:
 1. Patient monitoring in ED

2. ERC guidelines BLS+ AED
3. Definition and pathology of shock
4. Chosen life-threatening conditions in children
5. Chosen life-threatening conditions in adults

Laboratory class: 1. Introduction to emergency medicine, chain of survival, ABCDEF, own safety, recovery position and FBOA algorithm,
 2. Disaster medicine - triage systems in children and adults
 3. Disaster medicine - chemical disasters, radiological disasters, bioterrorism,
 4. BLS and AED – adults
 5. PBLs
 6. PBLs and BLS
 7. ALS – universal algorithm, 4H and 4T, drugs used during ALS, monitoring patient in ED– intubation, puloxymetry, ECG basics, defibrillation
 8. Management of medical emergencies – anaphylaxis, hypoglycemia, hyperglycemia, syncope, chest pain
 9. Environmental emergencies – burns, frostbites, hypothermia, hyperthermia, wounds dressing
 10. Primary and secondary assessment of trauma patients - fractures, sprains, immobilization, wounds dressing.
 11. Final Test- 50 questions , 4 answers , single choice test. The number of questions can be subject to change.

Obligatory literature for Lecture: 1. ERC 2015 guidelines

2. ITLS International Trauma Life Support 2015

Complementary literature for Lecture:

Obligatory literature for Lab classes:

Complementary literature for Lab classes:

Requirements for didactic aids (multimedia projector, movie camera, etc.) multimedia projector, laptop, blackboard, BLS and ALS manikins, trauma manikin, equipment for stabilization and transport of trauma victim

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Conditions for obtaining a credit for the subject: The presence of students during lectures, the activity on the labs, learning outcomes achieved on at least the minimum level specified in the syllabus (as a test MCQ)

Methods of evaluation:

Exams

Comprehensive Final Exam

Grading scale: a) Grading scale The grading scale is listed below:

- 95-100% 5.0 (very good)
- 90-94% 4.5 (better than good)
- 80-89% 4.0 (good)
- 70-79% 3.5 (quite good)
- 60-69% 3.0 (satisfactory)
- <60% 2.0 (unsatisfactory)

In case of retake, the grading scale is listed below:

- 95-100% 5.0 (very good)
- 90-94% 4.5 (better than good)
- 85-89% 4.0 (good)
- 80-84% 3.5 (quite good)
- 70-79% 3.0 (satisfactory)
- <70% 2.0 (unsatisfactory)

Attendance: . No absences are permissible

Tardiness: Students are expected to arrive at class on time.

Uniforms: Special medical uniform and shoes are obligatory.

Missed exams/Assignments/Make-up policy:

The student may be allowed to make-up an test under the following circumstances:

- Absence is due to serious illness/hospitalization of the student or an immediate family member. Documentation by a health care provider will be required at the time the student requests a make-up exam for the day of illness.
- Absence is due to family emergency, verified by a note from the professional person in attendance.
- Absence is due to a death in the immediate family. Documentation will be required.
- An absence that the faculty and/or Department Head deems as unavoidable.

The name and address of the department/clinic, where the course is taught (module/course); contact details (phone number/ email address): Department of Trauma Surgery and Emergency Medicine

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Signature of the head of the department/clinic

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