

Course description

Part 1

General information about the course		
1. Major of study: Medicine	2. Study level: unified MSc	
	3. Form of study: intramural	
4. Year: VI	5. Semester: XII	
6. Course name: Emergency Medicine		
7. Course status: required		
8. Course contents and assigned learning outcomes		
Student able to:		
<ul style="list-style-type: none"> - plans diagnostic, therapeutic and preventive procedures in life-threatening situations - learns the principles of therapeutic management in emergencies - learns the principles of keeping medical records of patients - assesses the condition of the unconscious patient in accordance with applicable international standards of management in non-traumatic and trauma patients - knows the rules of working in an interdisciplinary medical team - knows the principles of medical diagnostics based on scientific evidence 		
Learning outcomes / reference to learning outcomes indicated in the standards		
For knowledge – student knows and understands A.W1, A.W2., A.W4., B.W1., B.W2., B.W16., B.W20., B.W23., B.W24., B.W25., B.W28., C.W12., C.W13.,C.W18., C.W20., C.W21., .C.W22., C.W23., C.W27., C.W28., C.W29., C.W30.,C.W33., C.W34., C.W35., C.W36., C.W38., C.W39., C.W40., C.W43., C.W46., C.W48., D.W1.,D.W2.,D.W3.,D.W5., D.W6., D.W8., D.W9., D.W10.,D.W17., D.W18., D.W19., D.W20., D.W21., D.W23., E.W1., E.W6., E.W7., E.W14., E.W24., E.W29., E.W30., E.W33., F.W1., F.W2., F.W3., F.W6., F.W7., F.W8., F.W10., F.W13., F.W15., F.W16., G.W5., G.W7., G.W8., G.W9., G.W12.		
For skills student can do: A.U3., A.U4., A.U5., B.U9., B.U10., B.U13., C.U14., C.U18.,D.U1., D.U2., D.U3., D.U4., D.U5., D.U6., D.U6., D.U8., D.U12., D.U13., D.U15., D.U17., D.U18., E.U1., E.U2., E.U3., E.U4., E.U7., E.U28., E.U29., E.U30., E.U32., EU34., E.U36., E.U36., E.U38., F.U1., F.U2., F.U3., F.U4., F.U5., F.U7., F.U9., F.U10., F.U11., F.U12., F.U21., F.U22., G.U4., G.U5., G.U8., G.U9.		
For social competencies student is ready to:		
<ul style="list-style-type: none"> - establishing and maintaining deep and respectful contact with the patient, and showing understanding of ideological and cultural differences; - guiding the patient's well-being; - compliance with medical confidentiality and patient's rights; - taking actions towards the patient based on ethical principles, with awareness social conditions and restrictions resulting from the disease; 		
9. Number of hours for the course		30
10. Number of ECTS points for the course		1,5
11. Methods of verification and evaluation of learning outcomes		
Learning outcomes	Methods of verification	Methods of evaluation*
Knowledge	Oral exam	*
Skills	Practical exam	*
W zakresie kompetencji Competencies	Observation	*

The following evaluation system has been assumed:

Very good (5,0) – the assumed learning outcomes have been achieved and significantly exceed the required level

Better than good (4,5) – the assumed learning outcomes have been achieved and slightly exceed the required level

Good (4,0) – the assumed learning outcomes have been achieved at the required level

Better than satisfactory (3,5) – the assumed learning outcomes have been achieved at the average required level

Satisfactory (3,0) – the assumed learning outcomes have been achieved at the minimum required level

Unsatisfactory (2,0) – the assumed learning outcomes have not been achieved

Course description Part 2

Other useful information about the course		
12. Name of Department, mailing address, e-mail: Department of Emergency Medicine, Faculty of Medical Sciences in Katowice, Medical University of Silesia Wojewódzki Szpital Specjalistyczny nr 5 im. Św. Barbary Plac Medyków 1, 42-100 Sosnowiec		
13. Name of the course coordinator: dr n. med. Michał Starosolski mstarosolski@sum.edu.pl		
14. Prerequisites for knowledge, skills and other competencies: - Student knows the current guidelines for cardiopulmonary resuscitation of newborns, children and adults - Student knows the principles of functioning of the integrated system of state emergency medicine - Student knows the rules of qualification and performance and the most common complications of basic surgical procedures and invasive diagnostic and therapeutic procedures - Student knows the indications and principles of intensive care		
15. Number of students in groups	In accordance with the Senate Resolution	
16. Study materials	ECC Guidelines	
17. Location of classes	Emergency Department Szpital Św. Barbary w Sosnowcu, Medyków Square no 1 Sosnowiec, Educational and Medical Simulation Center Medical University of Silesia st. Medykow no 8b Katowice	
18. Location and time for contact hours	Emergency Department Szpitalny Oddział Ratunkowy Wojewódzki Szpital Specjalistyczny nr 5 im. Św. Barbary Plac Medyków 1, 42-100 Sosnowiec 9:00 – 12:00	
19. Learning outcomes		
Number of the course learning outcome	Course learning outcomes	Reference to learning outcomes indicated in the standards
P_W01 / C_K01	knows and understands the causes, symptoms, principles of diagnosis and therapeutic management in relation to the most common diseases requiring urgent intervention in the conditions in Emergency Department (Emergency Room)	B.W1, B.W2, B.W5, B.W20B.W23, B.W24, B.W25, B.W28,C.W33, C.W34, C.W38, C.W39, C.W40,C.W43, C.W46, C.W48, E.W1, E.W6, E.W7, E.W14, E.W24, F.W1, F.W2, F.W6, F.W7, F.W8, F.W10, F.W13, F.W15, F.W16
P_W02 / C_K02	interprets the results of tests on patients in a state of sudden life-threatening conditions in Emergency Department (Emergency Room)	B.W1, B.W2,B.W5, B.W16, B.W23, B.W25., C.W1, C.W20, C.W21, C.W21, C.W22, C.W23, C.W27, C.W28, E.W1, E.W6, E.W7, E.W14, E.W24
P_W03 / C_K03	evaluates the general condition, the state of consciousness and	A.W1, A.W2, A.W4, B.W16,

	awareness of the patient	B.W20, B.W23, C.W12, C.W13, C.W18, D.W1, D.W2, D.W3, D.W5, D.W6, D.W8, D.W9, D.W10, D.W17, D.W18, D.W19, D.W20, D.W23, E.W1, E.W6, E.W7, E.W14, E.W24, E.W29, E.W30, E.W33, F.W1, F.W2, F.W6, F.W7, F.W8, F.W10, F.W13, F.W15, F.W16,
P_W04 / C_K04	describes water and electrolyte balance in biological systems	B.W1, B.W2, B.W5, B.W23, B.W24, B.W25, G.W7, G.W8, G.W9, G.W12
P_W05 / C_K05	interprets laboratory tests and identifies the causes of deviations	B.W1, B.W2, B.W5, B.W23, B.W24, B.W25, C.W12, C.W13, C.W18, C.W20, C.W21, C.W21, C.W22, C.W23, C.W27, C.W28, E.W1, E.W6, E.W7, E.W14, E.W24
P_W06 / C_K06	knows the basic quantitative parameters describing the efficiency of individual systems and organs, including: the scope of the norm and demographic factors affecting the value of these parameters	A.W1, A.W2, A.W4, C.W29, C.W30, C.W33, C.W34, C.W38, C.W39, C.W40, C.W43, C.W46, C.W48
P_W07 / C_K07	knows the relationship between factors that disturb the balance of biological processes and physiological and pathophysiological changes	B.W1, B.W20, B.W5, B.W23, B.W24, B.W25, C.W33, C.W34, C.W38, C.W39, C.W40, C.W43, C.W46, C.W48, E.W1, E.W6, E.W7, E.W14, E.W24
P_W08 / C_K08	knows the definition and pathophysiology of shock, with particular emphasis on differentiating the causes of shock and multiple organ failure	B.W1, B.W2, B.W5, B.W20, B.W23, B.W24, B.W25, B.W28, C.W33, C.W34, C.W38, C.W39, C.W40, C.W43, C.W46, C.W48, E.W1, E.W6, E.W7, E.W14, E.W24, F.W1, F.W2, F.W6, F.W7, F.W8, F.W10, F.W13, F.W15, F.W16
P_U01 / C_S01	conducts a medical interview with an adult patient	A.U3, A.U4, A.U5, B.U9, B.U10, B.U13, D.U1, D.U2, D.U3, D.U4, D.U5, D.U6, D.U8, D.U10, D.U12, D.U13, D.U15, D.U16, D.U17, D.U18, E.U1, E.U2, E.U3, E.U4, E.U7, E.U30, E.U32, E.U34, E.U37, E.U38, F.U9, F.U10, F.U11, F.U22, G.U4, G.U5, G.U8, G.U9
P_U02 / C_S02	carries out a full and targeted physical examination of an adult patient	A.U3, A.U4, A.U5, B.U9, B.U10, B.U13, D.U1, D.U2, D.U3, D.U4, D.U5, D.U6, D.U8, D.U10, D.U12, D.U13, D.U15, D.U16, D.U17, D.U18, F.U9, F.U10, F.U11, F.U21, G.U4, G.U5, G.U8, G.U9
P_U03 / C_S03	conducts a physical examination of a child of all ages	A.U3, A.U4, A.U5, B.U9, B.U10, B.U13, D.U1, D.U2, D.U3, D.U4, D.U5, D.U6, D.U8, D.U10, D.U12, D.U13, D.U15, D.U16, D.U17, D.U18, F.U9, F.U10, F.U11, F.U21, G.U4, G.U5, G.U8, G.U9
P_U04 / C_S04	collects material for tests used in laboratory diagnostics	B.U9, B.U10, E.U1, E.U2, E.U3, E.U4, E.U7, E.U28
P_U05 / C_S05	able to start basic life support according to present guidelines	B.U9, B.U10, B.U13, C.U14, C.U18, D.U1, D.U2, D.U3, D.U4, D.U5, D.U6,

		D.U8,D.U10, D.U12, D.13, D.U15,D.U16, D.U17,D.U18, E.U1, E.U2, E.U3, E.U4, E.U7, E.U29, E.U30, E.U32, E.U34, E.U37, E.U38, F.U3, F.U4, F.U5, F.U9, F.U10, F.U11, F.U22
P_U06 / C_S06	operates in accordance with the current algorithm of advanced life support	B.U9, B.U10, B.U13, C.U14, C.U18, D.U1, D.U2, D.U3.,D.U4,D.U5, D.U6, D.U8,D.U10, D.U12, D.13, D.U15,D.U16, D.U17,D.U18, E.U1, E.U2, E.U3, E.U4, E.U7, E.U29, E.U30, E.U32, E.U34, E.U37, E.U38, F.U1, F.U2, F.U3, F.U4, F.U5, F.U9, F.U11, F.U12, F.U22, F.U23
P_U07 / C_S07	selects drugs in appropriate doses to correct the phenomena as above pathological in the body and in individual organs	B.U9, B.U10, C.U14, C.U18, D.U6, D.U8,D.U10, D.U12, D.13, D.U15,D.U16, D.U17,D.U18, E.U28
P_U08 / C_S08	recognizes states of immediate threat to life	B.U9, B.U10, C.U14, C.U18, D.U1, D.U2, D.U3.,D.U4,D.U5, D.U6, D.U8,D.U10, D.U12, D.13, D.U15,D.U16, D.U17,D.U18, E.U1, E.U2, E.U3, E.U4, E.U7, E.U30, E.U32, E.U34, E.U37, E.U38, F.U3, F.U4, F.U5, F.U9, F.U11, F.U12, F.U22, F.U23, G.U4, G.U5, G.U8, G.U9
20. Forms and topics of classes		Number of hours
23.3. Labs		30
Basic and Advanced Life Support – healthcareprovider, according to actual guidelines		
Primary and secondary assessment of the patient's condition		
The principles of work as part of an interdisciplinary medical team with patients with multi-organ trauma as a result of a mass accident and cataphraphy. Teamwork rules Trauma Team.		
Truma Pacient in hospital Trauma		
Rules of medical segregation of victims in mass accidents and disasters in the conditions of Emergency Department (Emergency Room). The order and scope of emergency assistance.		
Intensive care techniques in emergency medicine. Standards of operation and equipment of the Hospital Emergency Department. Requirements for personnel internal structure / areas of the SRD.		
Monitoring Vital Sign in Emergency Department (Emergency Room)		
Practical assessment of the circulatory system in patients at risk of life. Indications for electrotherapy and techniques for their implementation: defibrillation, cardioversion, electrostimulation. Ad hoc management of life-threatening arrhythmias.		
Respiratory failure and disorder – transport patient to Intensive Care Ward.		
Ultrasound (eFAST protocol) and Computed Tomography (Trauma Scan) in trauma patients.		
Transport of a seriously injured person in critical situations depending on the type of illness or injury. Rescue Teams in the structure of the Hospital. The role and impact of the "golden hour" principle on patient management in immediate danger to life.		
24. Readings		
- Basic Life Support Provider Maunal		

- Advanced Cardiovascular Life Support Manual
- Pediatric Advanced Life Support Manual
- International Trauma Life Support Manual
- Prehospital Trauma Life Support
- Basic Trauma Life Support
- Advanced Medical Life Support
- AHA Guidelines (according to ILCOR)
- ERC Guidelines (according to ILCOR)

25. Detail evaluation criteria

In accordance with the recommendations of the inspection bodies

Completion of the course – student has achieved the assumed learning outcomes

Detail criteria for completion and evaluation of the course are specified in the course regulations