Appendix to Decision No. 4/2020

Pomeranian Medical *University* in *Szczecin[PUM]*

COURSE SYLLABUS

General informatio

Name of COURSE : Elective: Advanced Resuscitation Actions	
Type of course	Elective
PUM Faculty	Faculty of Medicine and Dentistry
Field of study	Medicine
Specialization	-
Level of study	Long-term studies
Form of study	full-time/ part-time
Year of study /semester	IV
Number of ECTS credits allocated	0,75
Forms of teaching (number of hours)	Practical Exercises
Methods of verification and assessment of learning outcomes *	X graded credit: ☐ descriptive credit X test credit ☐ practical credit ☐ oral credit ~~☐ credit without grade~~ ~~☐ final exam:~~ ~~☐ descriptive~~ credit ~~☐ test~~ credit ~~☐ practical~~ credit ~~☐ oral~~ credit
Head of Unit	Prof. dr. hab. n. med. *Romuald Bohatyrewicz, MD, Prof. PH.D*
Teaching assistant professor or person responsible for the subject	Dr. hab. n. med. Joanna Sołek-Pastuszka, M.D., Ph,D mgr Jakub Wiśniewski, MA
Name and contact details of unit	Department of Anaesthesiology and Intensive Care PUM
Unit's website	e-mail: kaiit.pum@gmail.com
Language of instruction	Polish/English

Detailed information

Course objectives		The objective of the course is to gain the necessary knowledge and skills in the field of advanced life support in adults (ALS) based on the guidelines of the European Resuscitation Council. During the course, the student will learn and apply the principles of cardiopulmonary resuscitation, defibrillation, pharmacotherapy of emergency conditions, and passive and active oxygen therapy, using simple devices to establish an airway, and alternative devices to secure the airway. They will acquire the skills to work in a team, in a situation of sudden cardiac arrest in an adult.
Preliminary requirements in terms of	Knowledge	Has knowledge of: • anatomy and physiology - mainly respiratory and cardiovascular physiology in an adult • pharmacotherapy • premedical first aid
	Skills	Is able to perform non-instrumented cardiopulmonary resuscitation
	Social competences	Cooperates in a group

LEARNING OUTCOMES			
Number of learning outcome	**A student who has completed of the COURSE knows/can:**	**SYMBOL (reference to) learning outcomes for the field of study**	**Method of verifying the learning outcomes***
W01	knows the current guidelines for adult cardiopulmonary resuscitation	K_F.W7	practical skills test, case study
W02	knows the principles of operation of the integrated state medical rescue system	K_F.W8	practical skills test, case study
W03	knows the basic principles of pharmacotherapy	K_C.W37	practical skills test, case study
W04	knows and understands the causes, symptoms, principles of diagnosis and therapeutic management in relation to the most common internal diseases occurring in adults, and their complications: a) cardiovascular diseases, including: ischemic heart disease, heart failure (acute and chronic), b) respiratory diseases, including: respiratory failure (acute and chronic), c) allergic diseases, including: anaphylaxis and anaphylactic shock d) water-electrolyte and acid-base disorders: dehydration, conductivity, electrolyte disturbances, acidosis and alkalosis	K_E.W7	practical skills test, case study
U01	recognizes life-threatening conditions	K_E.U14	
U02	Performs basic medical procedures and treatments including:	K_E.U29	practical skills test, case study

	a) measurement of body temperature, measurement of heart rate, non-invasive measurement of blood pressure, b) monitoring of vital parameters with the help of cardiomonitor, pulse oximetry, c) oxygen therapy, assisted and replacement ventilation d) inserting an oropharyngeal tube, e) intravenous, intramuscular and subcutaneous injections, cannulation of peripheral veins. f) standard resting electrocardiogram with interpretation, electrical cardioversion and cardiac defibrillation, g) simple strip tests and blood glucose measurements		
U03	recognises the patient's agony and declares the patient dead	K_E.U37	practical skills test, case study
U04	places a peripheral puncture	K_F.U5	practical skills test, case study
U05	supplies external bleeding	K_F.U9	practical skills test, case study
U06	performs basic resuscitation using automated external defibrillator and other emergency procedures and give first aid	K_F.U10	practical skills test, case study
U07	operates in accordance with the current advanced resuscitation algorithm	K_F.U11	practical skills test, case study
U08	assesses the condition of the unconscious patient and determines according to current international scoring scales	K_F.U21	practical skills test, case study
U09	seeks to avoid making a medical error in its own actions	K_G.U6	practical skills test, case study
K01	cooperates with team members; can cooperate in a group taking up different roles	K_K04	practical skills test, case study
K02	is aware of the patient's rights	K_K11	practical skills test, case study
K03	can maintain medical confidentiality	K_K14	practical skills test, case study
K04	is able to take care of his own safety, as well as that of his surroundings and colleagues	K_K15	practical skills test, case study
K05	is able to appropriately determine priorities in order to accomplish a task defined by him/herself or others	K_K16	practical skills test, case study
K06	shows leadership and entrepreneurship, is able to organise teamwork	K_K18	practical skills test, case study

Table of learning outcomes in relation to the form of classes								
Number of learning outcome	**Learning outcomes**	**Form of the classes**						
		Lecture	**Seminar**	**Practical Exercises**	**Clinical exercises**	**Simulations**	**E-learning**	**Other forms**
W01	K_F.W7			X		X		
W02	K_F.W8			X		X		
W03	K_C.W37			X		X		
W04	K_E.W7			X		X		
U01	K_E.U14			X		X		
U02	K_E.U29			X		X		
U03	K_E.U37			X		X		
U04	K_F.U5			X		X		
U05	K_F.U9			X		X		
U06	K_F.U10			X		X		
U07	K_F.U11			X		X		
U08	K_F.U21			X		X		
U09	K_G.U6			X		X		
K01	K_K04			X		X		
K02	K_K11			X		X		
K03	K_K14			X		X		
K04	K_K15			X		X		
K05	K_K16			X		X		
K06	K_K18			X		X		

TABLE OF CURRICULUM			
Curriculum number	**Curriculum content**	**Number of hours**	**Reference to the learning outcomes for the CLASSES**
Practical exercises and simulations			
TK01	Basic Life Support.	3h	W01, U06, K01, K04
TK02	Principles of airway protection.	3h	U02, K04
TK03	Advanced Life Support.	3h	W02, W03, W04, U07, U08, U09, K01, K02, K03, K04
TK04	Cardiac arrest in adults.	3h	U01, U04, U07, U08, U09, K01, K02, K03, K04, K05
TK05	Special situations in SCA.	3h	U02, U03, U05, U07, U08, U09, K01, K02, K03, K04, K07

Recommended Literature:
Reference literature
1. prc.krakow.pl/wytyczne.html

Student workload	
Form of student workload (class participation, activity, report preparation, etc.)	Student workload in h in the teacher's assessment (opinion)
Contact hours with the teacher/instructor	15h
Preparation for exercise/seminar	5h
Reading the indicated literature	5h
~~Writing a lab/exercise report/preparing a project/reference, etc.~~	
~~Preparation for the test/short test~~	
~~Preparing for the exam~~	
Preparation for the test	3h
Total student workload	28 h
ECTS credits	0,75
Notes	