GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Basics of emergency medicine for engineers, PG_00061794						
Field of study	Automation, Robotics and Control Systems						
Date of commencement of studies	October 2020		Academic year of realisation of subject		2023/2024		
Education level	first-cycle studies		Subject group				
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	4		Language of instruction		Polish Polish		
Semester of study	7		ECTS credits		3.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Katedra Biomechatroniki -> Faculty of Electrical and Control Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. inż. Grzegorz Redlarski				
	Teachers						

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	0.0	20.0	0.0	10.0	30

E-learning hours included: 0.0

Learning activity and number of study hours

Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours	Self-study	SUM
Number of study hours	30	5.0	40.0	75

Subject objectives

Learning the rules of practical conduct in situations of sudden threat to the health and/or life of infants, children and adults, and requiring quick and decisive intervention, until the arrival of a specialized medical rescue team.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_U03] can prepare and present a presentation on the problems and results of an engineering task	The student is able to prepare a multimedia presentation and discuss issues concerning the rules and systems dedicated to first aid.	[SU2] Assessment of ability to analyse information
[K6_U01] can obtain information from literature, databases and other sources; integrate the information obtained, interpret it and draw conclusions, formulate and justify opinions	The student is able to acquire and use the knowledge of first aid on the basis of applicable guidelines.	[SU3] Assessment of ability to use knowledge gained from the subject
[K6_W06] knows the structure of computers and microprocessors and the tasks of operating systems, has basic knowledge of the basics of computer software, drivers, microprocessor technology, design of simple algorithms and the operation of information networks	The student has the knowledge and ability to operate medical systems dedicated to defibrillation during first aid.	[SW1] Assessment of factual knowledge

Subject contents

Rules of conduct at the scene of the incident: home, public place, work environment (safety rules, division of tasks - calling for help, starting rescue operations). Cardiopulmonary resuscitation (CPR) exercises on phantoms in infants, children and adults (cardiac cessation). Rules for using the AED defibrillator. Exercises on phantoms covering other first aid cases: choking, drowning, drowning and hypothermia, electric shock.

Prerequisites and co-requisites

Lack.

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Practical exercises on phantoms	60.0%	100.0%

Recommended reading

Basic literature	Wytyczne resuscytacji 2021, Polska Rada Resuscytacji, Kraków 2021 (in Polish).
Supplementary literature	Inżynieria Biomedyczna, Ryszard Tadeusiewicz, wydawnictwo AGH, Kraków 2008 (in Polish)

	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	1. What to do if a family member loses consciousness at home 2. What to do if a person loses consciousness in a public environment in the face of other people brawling 3. What to do in the event of moderate choking by a child or adult in a safe work environment 4. What should be done in a situation of choking of an adult person, with simultaneous loss of consciousness and cessation of circulation and inability to remove the object of choking 5. What activities should be performed with a drowned person in winter conditions - with a person who fell into an ice hole and was pulled out after some time 6. Principles of first aid to a person who was electrocuted	
Work placement	Not applicable	