GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00070779		
Field of study	Mechanical Engineering		
Date of commencement of studies	February 2026	Academic year of realisation of subject	2025/2026
Education level	second-cycle studies	Subject group	
Mode of study	Full-time studies	Mode of delivery	at the university
Year of study	1	Language of instruction	Polish
Semester of study	1	ECTS credits	2.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Division of Mechanical Vehicles and Military Technology -> Institute of Mechanics and Machine Design -> Faculty of Mechanical Engineering and Ship Technology -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	prof. dr hab. inż. Jerzy Ejsmont	
	Teachers	prof. dr hab. inż. Jerzy Ejsmont	

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	30.0	0.0	0.0	0.0	0.0	30

E-learning hours included: 0.0

eNauczanie source addresses:

Moodle ID: 3728 Inżynieria bezpieczeństwa i reagowania kryzysowego
https://enauczanie.pg.edu.pl/2025/course/view.php?id=3728

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	0.0	0.0	30

Subject objectives

The course aims to broadly prepare students to respond appropriately in crisis situations, such as warfare, acts of terrorism, natural disasters, and technological catastrophes, including road accidents. For each threat, three phases of action will be discussed: preparation combined with preventive measures, behavior during a threat, and evacuation and recovery. Past crisis situations will be analyzed to draw constructive conclusions regarding preparation and response. The course content is closely linked to Poland's geopolitical situation.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems	Students can assess the risks associated with potential threats, determine preparedness strategies, and implement protective measures. In the event of a threat, they can take action to ensure their own survival and that of their group members.	[SU4] Assessment of ability to use methods and tools
[K7_K71] is able to explain the need to apply knowledge from humanistic, social, economic or legal sciences in order to function in a social environment	The student is able to analyze a crisis situation and adapt their actions to the technical and organizational capabilities at their disposal. They are able to assume a leadership role by organizing preparations, survival, and eventual evacuation.	[SK5] Assessment of ability to solve problems that arise in practice
[K7_W71] has general knowledge in humanistic, social, economic or legal sciences, including their fundamentals and applications	Students can analyze the current geopolitical and social situation in Poland and assess climatic and technological threats in their environment. They also demonstrate the ability to critically analyze information and develop strategies for dealing with situations where access to information is very limited.	[SW1] Assessment of factual knowledge

<table>
<tr><td>Subject contents</td><td>Course content – lecture

1. Legal aspects of civil defense and crisis management.
2. Mental and physical preparation for stressful situations.
3. Medical preparation (principles of providing medical assistance).
4. Advance planning and preparation.
5. Decision-making regarding survival strategies.
6. Natural disasters (flood, storm, avalanche, forest fire).
7. Technical disasters (blackout, fire, building collapse, road, rail, air, and sea disasters, large-scale industrial accidents).
8. Acts of terrorism (active shooter, knife attack, bombing, chemical attack, cyberattack).
9. Warfare (preventing acts of sabotage and espionage, behavior during firefights or drone attacks, preparing shelter and supplies, procedures in the event of a chemical and nuclear attack).
10. Evacuation.
11. Firearms principles of operation, basics of safe use of handguns (pistols, revolvers, rifles, shotguns).
12. Techniques used in rescue.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>Test</td><td>51.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td>Recommended reading</td><td><table><tr><td>Basic literature</td><td>J. Pałkiewicz, K. Petek, Wojna u progu, Świat Książki, 2022

M. Mabee, The Civil Defense Book, Emergency Preparedness for a Rural or Suburban Community, CreateSpace Independent Publishing Platform, 2017

J. Robins, The Worlds Greatest Disasters, AB

P. Frankowski, A. Chałuda, Pierwsza pomoc przedmedyczna outdoor, survival, wojna. Wyd. Bezdroża, 2023

Poradnik Bezpieczeństwa - wyd 2025</td></tr><tr><td>Supplementary literature</td><td>P. Moszner. Ratowanie Życia w sytuacjach zagrożenia, AT-RTS, 2025

J. Ejsmont. Celność broni strzeleckiej, WKŁ, 2012</td></tr><tr><td>eResources addresses</td><td>Basic
http://AreYouReady?An-In-DepthGuidetoCitizenPreparedness,P-2064https://www.ready.gov/sites/default/files/2021-11/are-you-ready-guide.pdfhttps://www.fema.gov/multimedia-library - Are You Ready? An-In-Depth Guide to Citizen Preparedness, P-2064</td></tr></table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td>1. How to stop massive arterial bleeding from the lower limb.
2. What are the alarm signals in Poland?
3. How to treat drinking water.
4. How to load and unload a pistol.
5. What to do if a fire alarm is triggered.</td></tr>
<tr><td>Practical activites within the subject</td><td>Not applicable</td></tr>
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