



Subject card

Subject name and code	The art of survival, PG_00062794						
Field of study	Mathematics						
Date of commencement of studies	October 2022	Academic year of realisation of subject			2023/2024		
Education level	second-cycle studies	Subject group					
Mode of study	Full-time studies	Mode of delivery			e-learning		
Year of study	2	Language of instruction			Polish -		
Semester of study	4	ECTS credits			2.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Institute of Mechanics and Machine Design -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	prof. dr hab. inż. Jerzy Ejsmont					
	Teachers	prof. dr hab. inż. Jerzy Ejsmont					
Lesson types and methods of instruction	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: 30.0						
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		2.0		18.0	50
Subject objectives	The aim of the course is to familiarize students with broadly understood issues related to survival in extreme conditions. Issues related to the mental attitude as well as technical and organizational aspects enabling survival in extraordinary conditions such as accidents, natural and technical disasters, warfare, etc. will be presented. Due to climate change and threats of a military, terrorist and even epidemiological nature, listeners will also learn about survival equipment, methods of transmitting information in the event of a telecommunications network failure, etc.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[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 select methods and tools used to create information. Is able to formulate statements in a way that enables the performance or commissioning of specific work and the achievement of assumed goals. The student adopts responsible attitudes and is able to act as a leader. In particular, he is able to convey graphic information verbally.	[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	The student has knowledge about the turbulent changes in the geopolitical environment in which he lives. The student has knowledge about the natural environment and other natural and environmental systems. Has knowledge about climatic zones, fauna and flora. The student has knowledge of selected areas of team building and management. The student has the ability to critically verify the information he receives from the environment.	[SW1] Assessment of factual knowledge
[K7_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems	The student is able to assess the risk resulting from the threat analysis. Selects preventive, corrective and protective measures, methods and tools. The student uses simple methods and tools, including acquiring knowledge about how to create tools that will allow him to meet the basic physical needs of himself and the group with which he cooperates or for which he is responsible. In particular, he can find and purify water, make a fire, build a shelter and equip himself with improvised tools and weapons using materials within his reach. It is also able to move in a selected direction using natural navigation methods.	[SU4] Assessment of ability to use methods and tools	
Subject contents	<p>1. Psychological aspects related to survival in extreme conditions.2. Mental, physical and organizational preparation to operate in extreme conditions.3. Obtaining and treating drinking water.4. Obtaining and storing food.5. Construction of permanent and temporary shelters.6. The meaning of fire and ways of lighting it.7. Weapons and improvised tools useful in extreme situations.8. Use of climbing systems.9. Maps, topography and cartographic coordinate systems.10. Moving around in the outback.11. Masking.12. Estimating distance, mass, number of people.13. Providing information without using moderne IT systems.14. Principles of providing first aid in extreme situations.</p>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Test	50.0%	100.0%
Recommended reading	Basic literature	<ol style="list-style-type: none"> 1. R. Beattie, Sztuka Przetrwania, Wyd. Publicat S.A. 2. J. Wiseman, SAS Survival Guide, Wyd. Collins Game 3. P. Frankowski, A. Chałuda, Pierwsza Pomoc Przedmedyczna outdoor, survival, wojna, Wyd. Bezdroża 4. A. Stilwell, Survival, Techniki Przetrwania, Wyd. Bellona 5. J. Pasławski, Wprowadzenie do Kartografii i Topografii, Wyd. Nowa Era 	
	Supplementary literature	<ol style="list-style-type: none"> 1. Naval, Przetrwać Belize, Wyd. Znak, Litera Nova 2. M. Rahimi, Nurkowanie Bez Stresu, Wyd. Almapress 	

	eResources addresses	Podstawowe http://youtube - Films on Youtube Adresy na platformie eNauczanie: Sztuka Przetwarzania - Moodle ID: 36315 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=36315
Example issues/ example questions/ tasks being completed	<ol style="list-style-type: none"> 1. What is the daily requirement for drinking water and what does it depend on? 2. Mental training methods useful in survival. 3. How to make a fire in the field. 4. Estimate the number of people in the photo. 5. State what is located at a point with given geographical coordinates using a map. 6. How to estimate the distance traveled. 	
Work placement	Not applicable	