



## Subject card

Subject name and code	Occupational health and safety, PG_00023225						
Field of study	Mechatronics, Mechatronics						
Date of commencement of studies	October 2020	Academic year of realisation of subject				2021/2022	
Education level	first-cycle studies	Subject group			Humanistic-social subject group		
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	2	Language of instruction				Polish	
Semester of study	4	ECTS credits				1.0	
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Machine Design and Vehicles -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Ryszard Woźniak				
	Teachers		dr inż. Ryszard Woźniak				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	9.0	0.0	0.0	0.0	0.0	9
	E-learning hours included: 0.0						
	Bezpieczeństwo i higiena pracy, WIMiO, Mechatronika, I st., stacjonarne, (M:31209W0), semestr letni 2021/2022, prowadzący: Sławomir Sommer - Moodle ID: 20895 <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=20895">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=20895</a>						
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	9		3.0		13.0	25
Subject objectives	Acquiring basic knowledge in the field of ergonomics.						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	K6_U11		Student explains the concepts of ergonomics. Describes its goals and area of application. Defines the human - machine - environment system. Designs the human working environment taking into account the principles of design. Uses various human models. It presents the safety and reliability of the human - machine - environment system. Shows machine information.			[SU5] Assessment of ability to present the results of task	
	K6_W12		Student explains the concepts of ergonomics. Describes its goals and area of application. Defines the human - machine - environment system. Designs the human working environment taking into account the principles of design. Uses various human models. It presents the safety and reliability of the human - machine - environment system. Shows machine information.			[SW3] Assessment of knowledge contained in written work and projects	
Subject contents	Definitions of ergonomics, its object, purpose and application. Description of the human-machine layout of the environment. The concept of sustainable development. Environmental management systems. The human model and its characteristics. Human capabilities and industrial processes. The human work environment - material conditions. Principles of designing the human work environment. Safety and reliability of the human - machine - environment system. Machine information.						
Prerequisites and co-requisites	Knowledge from the subject of Physics (in the field of high school).						

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Final text development	50.0%	50.0%
	Evaluation of the task implementation	50.0%	50.0%
Recommended reading	Basic literature	1. Koradecka D.: "Bezpieczeństwo pracy i ergonomia", tom I i II. CIOP, Warszawa, 1997. 2. Hempel L.: "Człowiek i maszyna - techniczny model współdziałania", materiały własne, 1984. 3. Wykowska M.: "Ergonomia", Wyd Akademii Górniczo-Hutniczej w Krakowie, Kraków, 1994	
	Supplementary literature	Not applicable	
	eResources addresses		
Example issues/ example questions/ tasks being completed	1) definitions of ergonomics  2) human models		
Work placement	Not applicable		