

## 。 GDAŃSK UNIVERSITY OF TECHNOLOGY

## Subject card

Subject name and code	Safety Regulations and Ergonomics, PG_00064112								
Field of study	Mechanical and Medical Engineering								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2024/2025			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study			
						Subject group related to scientific research in the field of study			
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			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							echnology	
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Ryszard Woźniak							
	Teachers		dr inż. Sławomir Sommer						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	0.0	0.0		0.0	15	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes includ plan	n didactic ed in study	Participation in consultation hours		Self-study		SUM	
	Number of study hours	15		1.0		9.0		25	
Subject objectives	Acquisition of basic knowledge in the area of work safety and ergonomics BPiE.								
Learning outcomes	Course out	come	Subj	ect outcome			Method of veri	fication	
	[K6_K02] is aware of importance of professional dealing and to fulfill ethics obligations, he/she understands other (nontechnical) abilities of mechanical engineering professional, their influence on the society and security of environment, he/she is aware of importance of social cooperation		The student explains the concepts ergonomics. It describes its goals and application area. Defines man-machine system - surroundings. Designs the environment human work taking into account design principles. Applies different human models. Presents safety and reliability of the human-system machine - environment. To introduce informativeness of machines.			[SK5] Assessment of ability to solve problems that arise in practice			
	industry and follow the rules of safety regulations, he/she is able to analyze basic economics problems to delineate the direction of solution by using engineering methods		ergonomics. It describes its goals and application area. Defines man-machine system - surroundings. Designs the environment human work taking into account design principles. Applies different human models. Presents safety and reliability of the human-system machine - environment. To introduce informativeness of machines.			use knowledge gained from the subject [SU1] Assessment of task fulfilment			

Subject contents	Definitions of ergonomics, their purposes and application area. Description of man - machine - environment configuration. Conception of balanced development. Environmental management system. Model of man and it's characteristics. Man capabilities versus industrial processes. Environment of working man - circle conditions. Designs principles of environment of working man. Safety and reliable man - machine - environment configuration. Information acquisition of machines.					
Prerequisites and co-requisites	Knowledge of Physics (High School level).					
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade			
	No requirements	50.0%	100.0%			
Recommended reading	Basic literature	<ol> <li>Koradecka D.: "Bezpieczeństwo pracy i ergonomia", tom I i II. CIOP, Warszawa, 1997.</li> <li>Hempel L.: "Człowiek i maszyna - techniczny model współdziałania", materiały własne, 1984.</li> <li>Wykowska M.: "Ergonomia", Wyd Akademii Górniczo-Hutniczej w Krakowie, Kraków, 1994.</li> </ol>				
	Supplementary literature	No requirements				
	eResources addresses	Adresy na platformie eNauczanie: Bezpieczeństwo pracy i ergonomia - W-15/Ć-0/L-0/P-0, WIMiO, IMM, I st., sem. 01, stacjonarne, (PG_00064112), semestr zimowy 2024/2025 - Moodle ID: 39002 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=39002				
Example issues/ example questions/ tasks being completed	Biomechanical analysis of the process and the workplace. The physical capacity of the human body. System Diagram man - technical object.					
Work placement	Not applicable					

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