

Subject card

Subject name and code	Occupational Health and Safety Ergonomics, PG_00041987								
Field of study	Power 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			English			
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						Technology		
Name and surname	Subject supervisor		dr inż. Ryszard Woźniak						
of lecturer (lecturers)	Teachers		dr inż. Ryszai						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
	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 include plan			Participation in consultation hours		Self-study		SUM	
	Number of study hours	15		3.0		7.0		25	
Subject objectives	Gaining basic knowledge of ergonomics andoccupational health and safety.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_K02] is able to work in a group taking different roles in it, can think and act in an entrepreneurial way, is aware of responsibility for their own work and responsibility for teamwork		The student presents the safety and reliability of the man-machine environment system.			[SK5] Assessment of ability to solve problems that arise in practice			
	[K6_K03] is able to react in emergency situations, threats to health and life when using energy devices, is aware of the impact of engineering activities on the environment		The student designs the human work environment taking into accountthe principles of design.			[SK5] Assessment of ability to solve problems that arise in practice			
	[K6_U03] has the preparation necessary to work in an industrial environment, applies the principles of occupational health and safety, can perform diagnostics of the regulation system of a simple energy facility		The student uses different human models.			[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	Subject passing criteria		Passing threshold			Percentage of the final grade			
and criteria	End test		50.0%			100.0%			

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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	No requirements				
	eResources addresses	Adresy na platformie eNauczanie: Occupational Health and Safety Ergonomics - L-15/C-0/L-0/P-0, ENERGY TECHNOLOGIES, se 01, (PG_00041987), winter semester, 2024/2025 - Moodle ID: 38997 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=38997				
Example issues/ example questions/ tasks being completed	1) definitins of ergonomics					
	2) human models					
Work placement	Not applicable					

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