

## Subject card

Subject name and code	HSE and Ergonomics in Work, PG_00055867								
Field of study	Power Engineering, Power Engineering								
Date of commencement of studies	October 2023		Academic year of realisation of subject			2023/2024			
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	Institute of Mechanics and Machine Design -> Faculty of Mechanical Engineering and Ship Technology								
Name and surname	Subject supervisor		dr inż. Ryszard Woźniak						
of lecturer (lecturers)	Teachers		dr inż. Ryszard Woźniak						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	Project Seminal		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		1.0		9.0		25	
Subject objectives	Acquiring basic knowledge in the field of ergonomics and occupational health and safety.								

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Learning outcomes	Course outcome	Subject outcome	Method of verification			
Learning outcomes	[K6_U03] has the preparation	Subject outcome  The student explains the concepts	Method of verification [SU1] Assessment of task			
	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	of ergonomics. It describes its goals and area of application. It is defined by the human - machine - environment system. Designs the human work environment taking into account the design principles. He uses various human models. It presents the safety and reliability of the human - machine - environment system. It presents the information ability of machines.	fulfilment [SU5] Assessment of ability to present the results of task			
	[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 explains the concepts of ergonomics. It describes its goals and area of application. It is defined by the human - machine - environment system. Designs the human work environment taking into account the design principles. He uses various human models. It presents the safety and reliability of the human - machine - environment system. It presents the information ability of machines.	[SK5] Assessment of ability to solve problems that arise in practice [SK2] Assessment of progress of work			
	[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 explains the concepts of ergonomics. It describes its goals and area of application. It is defined by the human - machine - environment system. Designs the human work environment taking into account the design principles. He uses various human models. It presents the safety and reliability of the human - machine - environment system. It presents the information ability of machines.	[SK5] Assessment of ability to solve problems that arise in practice [SK2] Assessment of progress of work			
Subject contents	Definitions of ergonomics, its subject, purpose and application. Description of the human-machine system environment. The concept of sustainable development. Environmental management systems. Human model and its characteristics. Human possibilities and industrial processes. Human work environment - material conditions. Principles of human work environment design. Safety and reliability of the human - machine - environment system. Informativeness of machines.					
Prerequisites and co-requisites						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Final test	50.0%	100.0%			
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 -					
	eResources addresses	Adresy na platformie eNauczanie:				
		Bezpieczeństwo pracy i ergonomia - W-15/Ć-0/L-0/P-0, WIMiO, ENERGETYKA, I st., sem. 01, stacjonarne, (PG_00041987), semestr zimowy 2023/2024 - Moodle ID: 31244 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=31244				
Example issues/ example questions/ tasks being completed	1) definitions of ergonomics 2) human models					
Work placement	Not applicable					

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