

## Subject card

Subject name and code	Occupational Safety and Health and Ergonomics, PG_00041979								
Field of study	Power Engineering, Power Engineering, Power Engineering, Power Engineering								
Date of commencement of	October 2020				1				
studies			Academic year of realisation of subject			2020/2021			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study			
						Humanistic-social subject group			
Mode of study	Full-time studies		Mode of delivery			e-learning			
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 Machin	Vehicles -> 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	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: 15.0								
	Adresy na platformie eNauczanie: Occupational Safety and Health and Ergonomics - Moodle ID: 6074 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=6074								
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study SUM		SUM		
	Number of study hours	15		2.0		8.0		25	
Subject objectives	Gaining basic knowledge of ergonomics and occupational health and safety.								
Learning outcomes	Course out	Subject outcome			Method of verification				
	[K6_K71] is conscious of the need to apply knowledge from humanistic, social, economic or legal sciences in order to function in a social environment			The student explains the concepts of ergonomics. It describes its goals and area of application.  Defines the human - machine - environment system. Designs a human work environment taking into account design principles.  Applies different human models. Presents the safety and reliability of the human-machine-environment system. Student presents information on machines.			[SK5] Assessment of ability to solve problems that arise in practice		
Subject contents	[K6_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems in a social environment		The student explains the concepts of ergonomics. It describes its goals and area of application.  Defines the human - machine - environment system. Designs a human work environment taking into account design principles.  Applies different human models.  Presents the safety and reliability of the human-machine-environment system. Student presents information on machines.			[SU4] Assessment of ability to use methods and tools			
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.								

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Prerequisites and co-requisites	Knowledge of Physics (High School level).						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	End 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 No requirements						
	eResources addresses  Occupational Safety and Health and Ergonomics - Moodle ID: 6074 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=6074						
Example issues/ example questions/ tasks being completed	1) definitins of ergonomics						
	2) human models						
Work placement	Not applicable						

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