

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 Machin	artment of Machine Design and Vehicles -> Faculty of Mechanical E			anical E	ngineering and Ship Technology		
Name and surname	Subject supervisor dr inż. Ryszard Woźniak							
of lecturer (lecturers)	Teachers		dr inż. Sławor	mir 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 inclu	ıded: 0.0						
Learning activity and number of study hours	Learning activity	arning activity Participation in classes include plan				Self-study SUM		
	Number of study hours			1.0		9.0		25
Subject objectives	Acquisition of basic k	nowledge in the	e area of work	safety and erg	onomics	BPiE.		
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	[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		
	safety regulations, he/she is able to analyze basic economics problems to delineate the direction of solution by using engineering methods		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.			[SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment		

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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	Koradecka D.: "Bezpieczeństwo pracy i ergonomia", tom I i II. CIOP, Warszawa, 1997. Hempel L.: "Człowiek i maszyna - techniczny model współdziałania", materiały własne, 1984. Wykowska M.: "Ergonomia", Wyd Akademii Górniczo-Hutniczej w Krakowie, Kraków, 1994.				
	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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