

Subject card

Subject name and code	Safety regulations and ergonomics, PG_00055735								
Field of study	Mechanical and Medical 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			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								
Name and surname	Subject supervisor		dr inż. Ryszard Woźniak						
of lecturer (lecturers)	Teachers		dr inż. Sławomir Sommer						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	Project 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	ing activity Participation in classes include plan				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.								

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Learning outcomes	Course outcome	Subject outcome	Method of verification				
	[K6_U12] he/she applies basic life- saving activities in the scope of lavage service	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. He presents the safety and reliability of the human - machine - environment system. He presents the information ability of machines.	[SU1] Assessment of task fulfilment				
	[K6_U06] he/she has skills to work in 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	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. He presents the safety and reliability of the human - machine - environment system. He presents the information ability of machines.	[SU1] Assessment of task fulfilment				
	[K6_W11] he/she is aware of social and juridical rules and general rules of creation and developing of individual entrepreneurship, business and quality management	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. He presents the safety and reliability of the human - machine - environment system. He presents the information ability of machines.	[SW2] Assessment of knowledge contained in presentation				
	[K6_K02] he/she 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 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. He presents the safety and reliability of the human - machine - environment system. He presents the information ability of machines.	[SK2] Assessment of progress of work				
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	No requirements	50.0%	100.0%				
Recommended reading	Basic literature 1. Koradecka D.: "Bezpieczeństwo pracy i ergonomia", tom I i II. C Warszawa, 1997. 2. Hempel L.: "Człowiek i maszyna - techniczny model współdziała materiały własne, 1984. 3. Wykowska M.: "Ergonomia", Wyd Akademii Górniczo-Hutniczej Krakowie, Kraków, 1994.						
	Supplementary literature	No requirements					
	eResources addresses Adresy na platformie eNauczanie:						
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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