

Subject card

Subject name and code	Work Safety and Ergonomics, PG_00040186							
Field of study	Mechanical Engineering							
Date of commencement of studies	October 2022		Academic year of realisation of subject			2023/2024		
Education level	first-cycle studies		Subject group			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	2		Language of instruction			English		
Semester of study	4		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. Ryszard Woźniak					
Lesson types and methods of instruction	Lesson type Lecture		Tutorial	 		t	Seminar	SUM
	Number of study hours	15.0	0.0 0.0		0.0		0.0	15
	E-learning hours inclu		11-141-	D#-i#		0 - 15 - 4		OUM
Learning activity and number of study hours	Learning activity	activity Participation in classes includ plan				Self-study SUM		SUM
	Number of study hours 15			3.0		7.0		25
Subject objectives	Gaining basic knowledge of ergonomics and occupational health and safety.							
Learning outcomes	Course outcome K6_U11		Subject outcome Student explains the concepts of			Method of verification		
			ergonomics. Describes its goals and area of application. Defines the human - machine - environment system. Designs the human working environment taking into account the principles of design. Uses various human models. It presents the safety and reliability of the human - machine - environment system. Shows machine information. Assessment of ability to solve.			fulfilment		
	[K6_K02] understands extechnical aspects of the activities included in the profession of a mechanical engineer, among others its social impact and influence on the condition of an environment; is aware of the responsibility connected with the decisions made in connection with engineering activity K6_W12		Student explains the concepts of ergonomics. Describes its goals and area of application. Defines the human - machine - environment system. Designs the human working environment taking into account the principles of design. Uses various human models. It presents the safety and reliability of the human - machine - environment system. Shows machine information. Assessment of ability to solve. Student explains the concepts of ergonomics. Describes its goals			[SK2] Assessment of progress of work [SK5] Assessment of ability to solve problems that arise in practice [SW3] Assessment of knowledge contained in written work and		
		and area of application. Defines the human - machine - environment system. Designs the human working environment taking into account the principles of design. Uses various human models. It presents the safety and reliability of the human - machine - environment system. Shows machine information. Assessment of ability to solve.			projects			

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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			
	End test	50.0%	100.0%			
Recommended reading	Basic literature	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					
Example issues/ example questions/ tasks being completed	1) definitins of ergonomics					
	2) human models					
Work placement	Not applicable					

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