

Subject card

Subject name and code	Work Safety and Ergonomics, PG_00040186							
Field of study	Mechanical Engineering							
Date of commencement of studies	October 2025		Academic year of realisation of subject			2026/2027		
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 pro	ademic profile		ent form		assessment		
Conducting unit	Department Of Machine Design And Vehicles -> Faculty Of Mechanical Engineering And Ship Technology -> Wydziały Politechniki Gdańskiej							
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Ryszard Woźniak					
	Teachers							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	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	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	15		3.0		7.0		25
Subject objectives	Gaining basic knowledge of ergonomics and occupational health and safety.							

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Learning outcomes	Course outcome	Subject outcome	Method of verification					
	[K6_W12] possesses basic knowledge necessary to understand the ex-technical conditions of engineering activity, possesses basic knowledge on management, including quality management and running commercial enterprise, within the range of protection of intellectual property and patent law; knows general principles of creating and developing forms of individual entrepreneurship and basic HSE rules applicable to machine industry	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.	[SW3] Assessment of knowledge contained in written work and projects					
	[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	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.	[SK5] Assessment of ability to solve problems that arise in practice [SK2] Assessment of progress of work					
	K6_U11	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.	[SU1] Assessment of task fulfilment					
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 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	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 Adresy na platformie eNauczanie:							
Example issues/ example questions/ tasks being completed	1) definitins of ergonomics							
	2) human models							
Work placement	Not applicable							

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