

Subject card

Subject name and code	Technical Ergonomics, PG_00044769								
Subject name and code Field of study	Engineering Management								
-									
Date of commencement of studies	October 2022		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	3		Language of instruction			Polish			
Semester of study	5		ECTS credits			4.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Department of Inform	Department of Informatics in Management -> Faculty of Management and Economics							
Name and surname	Subject supervisor	prof. dr hab. inż. Marcin Sikorski							
of lecturer (lecturers)	Teachers		mgr inż. Jerzy Grabosz						
		prof. dr hab. i	nż. Marcin Siko	orski					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial Laboratory P		Projec	t	Seminar	SUM	
	Number of study hours	30.0	0.0	0.0	15.0		0.0	45	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes included			Self-study SUM				
	Number of study hours	45		8.0		47.0		100	
Subject objectives	Acquisition of knowledge of ergonomics methods and techniques that are needed not only to the organizers and production managers, and designers but technical, organizational and information technology.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_U05] uses appropriate regulations, legal rules and normative systems in accordance with the principles of professional ethics in managerial activities					[SU1] Assessment of task fulfilment			
	[K6_W11] has the basic knowledge of mathematics, physics and chemistry necessary to solve technical problems		Has knowledge about physical workload at workplaces.			[SW1] Assessment of factual knowledge			
	[K6_W12] has a basic knowledge of production management and occupational safety and ergonomics management, as well as information technologies necessary for engineering management		Has knowledge about occupational ergonomics			[SW1] Assessment of factual knowledge			
	[K6_U08] analyses engineering and managerial solutions in decision-making processes, taking into account pro-quality and pro-environmental aspects, as well as safety of work processes		Has ability to evaluate and design workplaces according to principles of ergonomics			[SU1] Assessment of task fulfilment			
	[K6_W07] knows the basic conditions concerning norms and standards covering particular areas of the organization's functioning, including in particular those concerning technical resources and processes		Has knowledge about organization of work according to pronciples of ergonomics			[SW1] Assessment of factual knowledge			

Data wygenerowania: 05.11.2024 05:14 Strona 1 z 2

Subject contents	Ergonomics of physical work. Meth	Ergonomics of physical work. Methods of physical workload analysis.					
	Principles of workspace design.						
	Methods of workspace design. Reducing physical workload.						
	Evaluation of mental workload.						
	Cognitive workload analysis. Human reliability assessment.						
	Ergonomics guidelines for computer-supported work.						
	Ergonomics requirements for software and information systems. Design and evaluation of work environment: industrial acoustics. Design and evaluation of work environment: lighting, microclimate, electromagnetic fields. Ergonomic evaluation of industrial machinery and workplaces.						
	Occupational risk assessment.						
	Safety management in industry.						
	Employees' duties and responsibilities in providing safe working conditions for the personnel.						
Prerequisites							
and co-requisites Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	project	60.0%	50.0%				
	written exam	60.0%	50.0%				
Recommended reading	Basic literature	Górska E. (2007): Ergonomia - projektowanie, diagnoza, eksperymenty. Wyd. Politechnika Warszawska, Warszawa. Lewandowski J.(1995): Ergonomia. MARCUS, Łódź.					
	Supplementary literature	Wykowska M. (2010). Ergonomia. Wyd. AGH, Kraków. Miłosz M. (2014). Ergonomia systemów informatycznych. Politechnika Lubelska.					
	eResources addresses						
	Ergonomia techniczna STACJ 2024/2025 - Moodle ID: 39971 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=39971						
Example issues/ example questions/ tasks being completed							
Work placement	Not applicable						
TTOTA PIGOCITICITA	1 1 P P 1 2 2 2 2						

Document generated electronically. Does not require a seal or signature.

Data wygenerowania: 05.11.2024 05:14 Strona 2 z 2