



Subject card

Subject name and code	Cognitive Ergonomics, PG_00068606						
Field of study	Economic Analytics						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2027/2028		
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	Part-time studies		Mode of delivery		at the university		
Year of study	3		Language of instruction		Polish		
Semester of study	6		ECTS credits		3.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department Of Informatics In Management -> Faculty Of Management And Economics -> Wydział Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor						
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	8.0	0.0	16.0	0.0	0.0	24
	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	24		5.0		46.0	75
Subject objectives	Applies methods and techniques of information ergonomics in technical, organizational and IT solutions.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U07] uses advanced information technologies to enhance data analysis and decision-making processes.		designs work stations in accordance with the principles of information ergonomics		[SU1] Assessment of task fulfilment		
	[K6_W03] is familiar with reliable sources of information and employs advanced knowledge to explain the fundamental dilemmas of the contemporary economy		identifies reliable sources of information describing ergonomic problems at workplaces		[SW1] Assessment of factual knowledge		
Subject contents	Cognitive ergonomics Introduction Human information processing, human reliability. Models of human decision-making in selected applications. Analysis of work processes. Computer supported cognitive work. Ergonomic requirements for software and interactive systems. Ergonomics, usability and User Experience for IT solutions. Eliciting requirements for designing IT solutions and cooperation with customers/users in IT projects. Design Thinking and other methods of creative projects in the IT industry. Ergonomics in the modern office. Stress and information overload. Balancing work - private life. Electronic monitoring of employees behavior.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	written colloquium		60.0%		50.0%		
	laboratory exercises		60.0%		50.0%		
Recommended reading	Basic literature		Sikorski, M. (2012). Interakcja człowiek-komputer. Warszawa: Wyd. PJWSTK Miłosz, M. (2014). Ergonomia systemów informatycznych. Lublin: Politechnika Lubelska.				
	Supplementary literature		--				

	eResources addresses	Adresy na platformie eNauczenie:
Example issues/ example questions/ tasks being completed	Decribe main methods of eliciting user requirements for software in IT projects. Decribe main ergonomic requirements for workstations with computers and screen monitors.	
Work placement	Not applicable	

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