



Subject card

Subject name and code	Ergonomics of Mental Work, PG_00037136						
Field of study	Economic Analytics						
Date of commencement of studies	October 2021		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	3		Language of instruction		Polish		
Semester of study	5		ECTS credits		3.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Informatics in Management -> Faculty of Management and Economics						
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. inż. Marcin Sikorski				
	Teachers		dr inż. Kamil Brodnicki prof. dr hab. inż. Marcin Sikorski				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	15.0	0.0	0.0	30
	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	30		10.0		35.0	75
Subject objectives	Acquiring knowledge of methods and techniques of cognitive ergonomics, useful not only to the organizers and production managers, but also for designers of technical, organizational and IT solutions.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_W08] Knows selected concepts concerning human economic activity.		Student has knowledge about ergonomics of workplaces.		[SW1] Assessment of factual knowledge		
	[K6_K01] Understands the need for continuous learning, improving professional, personal and social competences.		Student gains additional knowledge by getting familiar with the principles of contemporaray and constantly changing solutions for supporting human cognitive and analytical work.		[SK5] Assessment of ability to solve problems that arise in practice		
	[K6_U10] Has the ability to create, independently and as a team, studies and analyses using the acquired knowledge of quantitative methods and computer programmes.		The student has skills to evaluate and design of workplaces according to ergonomic principles.		[SU1] Assessment of task fulfilment		
Subject contents	<div>1. Cognitive ergonomics - Introduction</div> <div>2. Human information processing, human reliability. Rasmussen's model.</div> <div>3. Models of human decision-making in selected applications.</div> <div>4. Analysis of work processes - models and tools</div> <div>5. Computer aided cognitive work.</div> <div>6. Ergonomic requirements for software and interactive systems.</div> <div>7. Ergonomics, usability and User Experience for IT solutions.</div> <div>8. Capturing requirements for designing IT solutions and cooperation with prospective customers / users.</div> <div>9. Design Thinking and other methods of creative projects in the IT industry.</div> <div>10. Ergonomics in the modern office. Stress and information overload.</div> <div>11. Balancing work - private life.</div> <div>12. Electronic monitoring of employees' behavior.</div>						

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	<ul style="list-style-type: none">Sikorski M. (2010). Interakcja człowiek-komputer. Wyd. PJWSTK WarszawaMiłosz M. (2014). Ergonomia systemów informatycznych. Politechnika Lubelska.	
	Supplementary literature	--	
	eResources addresses	Adresy na platformie eNauczanie: Ergonomia pracy umysłowej 2023/2024 - Moodle ID: 31591 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=31591	
Example issues/ example questions/ tasks being completed	--		
Work placement	Not applicable		