GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	ERGONOMICS OF MENTAL WORK, PG_00066543		
Field of study	Economic Analytics		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2026/2027
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	4.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department Of Informatics In Management -> Faculty Of Management And Economics -> Wydziały Politechniki Gdańskiej		
Name and surname of lecturer (lecturers)	Subject supervisor	prof. dr hab. inż. Marcin Sikorski	
	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	6.0	70.0	100

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] Applies 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] Knows reliable sources of information and uses advanced knowledge to explain fundamental dilemmas of the modern 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 colloqium	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 eNauczanie:
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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