



Subject card

Subject name and code	Human-computer interaction, PG_00045305						
Field of study	Data Engineering						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2025/2026		
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	2	Language of instruction			Polish		
Semester of study	4	ECTS credits			4.0		
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	prof. dr hab. inż. Marcin Sikorski					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	30.0	0.0	0.0	60
	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	60		8.0		32.0	100
Subject objectives	<ul style="list-style-type: none">familiarize students with the principles of building effective human-computer interactionlearn how to design, evaluate and improve ergonomics of the user interfaceacquire practical skills of conducting usability tests and organizing cooperation with users during an IT project						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
Subject contents	<ol style="list-style-type: none">Ergonomics, usability and User Experience.Characteristics of the user.GUI interface - guidelines and principles of design. Methods of development.Web interface - guidelines and principles of design. Methods of development.UCD approach - quality management, User-Centred Design methodology.UCD approach - methods for eliciting requirements, context of use analysis.UCD approach prototyping , evaluation and usability tests.UCD approach collecting data from users. Surveys and questionnaires.UCD approach reporting results from usability studies.Methods of collaboration with users in IT projects.Multimodal and natural user interfaces.Developing economic interactions. Trust on-line in e-business and in e-services.Creativity and innovation in developing interactions on-line between customer and service vendor.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	written colonium		60.0%		50.0%		
	laboratory exercises		60.0%		50.0%		
Recommended reading	Basic literature		Literatura podstawowa: Sharp H., Rogers Y., Preece J.: Interaction Design. Beyond Human-Computer Interaction. Wiley, 2011. Sikorski M. (2011). User-System Interaction Design in IT Projects. Politechnika Gdańska, Gdańsk, 2011				
	Supplementary literature		Schneiderman B., et al. (2017). Designing the User Interface: Strategies for Effective Human-Computer Interaction. Pearson				
	eResources addresses		Adresy na platformie eNauczanie:				

Example issues/ example questions/ tasks being completed	Exemplary questions: - user-system interaction techniques - prototyping in user interface design - methods of cooperation with users during an IT project
Work placement	Not applicable

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