

Subject card

Subject name and code	Human-computer interaction, PG_00045305							
Field of study	Data Engineering							
Date of commencement of studies	October 2021		Academic year of realisation of subject			2022/2023		
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	Subject supervisor prof. dr hab. inż. Marcin Sikorski							
of lecturer (lecturers)	Teachers prof. dr hab. inż. Marcin Sikorski dr inż. Magdalena Ciesielska							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM
of instruction	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 classes include plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	60		8.0		32.0		100
Subject objectives	 familiarize students with the principles of building effective human-computer interaction learn how to design, evaluate and improve ergonomics of the user interface acquire practical skills of conducting usability tests and organizing cooperation with users during an IT project 							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	[K6_U02] designs, analyses correctness and creates functional specification of IT systems, selects appropriate measures, creates quality models, prepares and assesses their design documentation.		Student is able to work in a team and organize cooperation between supplier and customesr/users in an IT project			[SU1] Assessment of task fulfilment		
	[K6_W11] has knowledge of the role of man in social structures and the impact of their decisions on economic situation of business entities		The student has an extended knowledge on guidelines for interaction design and on methods of developing the user interface			[SW1] Assessment of factual knowledge		
	or work in a project team and take		Student is able to work in a team and organize cooperation between supplier and customesr/users in an IT project			[SK1] Assessment of group work skills		
Subject contents	 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. 							

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Prerequisites and co-requisites						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade			
	written coloqium	60.0%	50.0%			
	laboratory exercises	60.0%	50.0%			
Recommended reading	Basic literature	Literatura podstawowa:				
		Sikorski M. Interaction Design in Agile IT Projects. Wyd. PG, 2021				
		Sharp H., Rogers Y., Preece J.: Interaction Design. Beyond Human-Computer Interaction. Wiley, 2019.				
	Supplementary literature Schneiderman B., et al. (2017). Designing the User Interface: Strategies for Effective Human-Computer Interaction. Pearson					
	eResources addresses	Podstawowe				
		https://www.researchgate.net/publication/ 357434574_INTERACTION_DESIGN_IN_AGILE_IT_PROJECTS - Sikorski M. Interaction Design in Agile IT Projects. Wyd. PG, 2021				
		Adresy na platformie eNauczanie:				
		Human-Computer Interaction ID 2022/2023 - Moodle ID: 24306 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=24306				
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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