

Subject card

Subject name and code	Design of Human-Computer Interaction, PG_00177516						
Field of study	Informatics and Econometrics						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
Education level	Master's studies		Subject group		Obligatory subject group in the field of study Optional subject group 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	1		Language of instruction		Polish polski		
Semester of study	2		ECTS credits		4.0		
Learning profile	academic		Assessment form		credit		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr Monika Woźniak				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	30.0	0.0	0.0	45
	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	45		3.0		52.0	100
Subject objectives	Familiarizing students with the areas and methods of designing human-computer interactions						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[liEMU2_U12] The student can adapt, design, create, and operate IT systems that support business entities.		The student is able to design user interfaces of IT systems taking into account the principles of human-computer interaction in order to support the functioning of economic entities.		[SU2] presentation/project/paper/report		
	[liEMU2_U02] Students can use conventional or innovative statistics, econometrics or informatics tools to analyze economic and social phenomena.		The student is able to design user interfaces of IT systems taking into account the principles of human-computer interaction, adapting them to the specificity of users and the needs of economic entities.		[SU2] presentation/project/paper/report		
	[liEMU2_W08] The student possesses a comprehensive understanding of the methods, conditions, directions, and dilemmas involved in applying advanced econometrics, informatics or statistics tools in response to dynamic environmental changes.		The student has an in-depth knowledge and understanding of the methods, conditions, directions of development and dilemmas related to designing the user interface of IT systems in the context of dynamic changes in the environment.		[SW4] test/exam - oral or written [SW2] presentation/project/paper/report		

Subject contents	Lecture • History and development of human-computer interaction • Basics, principles, types of human-computer interaction • Principles, models of designing human-computer interaction • Techniques and tools for creating user interfaces • Criteria and methods for assessing the human-computer interface • Instrumentation of human-computer interaction • The impact of new technologies on people's work and life and directions of development of IoT, AI, Smart City Exercises • Review and evaluation of products from a selected industry • Development of measurement tools • Creation of a set of best practices • Design and presentation of the interface for a selected industry		
Prerequisites and co-requisites	none		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	test	51.0%	30.0%
	preparation and presentation of HCI issues	51.0%	35.0%
	preparation and presentation of the project	51.0%	35.0%
Recommended reading	Basic literature	Sikorski M., Interakcja człowiek-komputer, Wydawnictwo Polsko-Japońskiej Wyższej Szkoły Technik Komputerowych, 2. 2010	
		Dix A., Finlay J., Abowd G., Beale R., Human-Computer Interaction, Prentice Hall, 2004	
		Nielsen J., Projektowanie funkcjonalnych stron internetowych, Wyd. Helion, 2003	
	Supplementary literature	Wysocki M., Kapuściński T., Marnik J., Oszust M., Rozpoznawanie gestów wykonywanych rękami w systemie wizyjnym, Oficyna Wydawnicza Politechniki Rzeszowskiej, 2011	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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