

Subject card

Subject name and code	Laboratory of Software Usability, PG_00048282								
Field of study	Informatics								
Date of commencement of studies	February 2025		Academic year of realisation of subject			2025/2026			
Education level	second-cycle studies		Subject group			Optional subject group			
						Specialty 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			
Semester of study	2		ECTS credits			1.0			
Learning profile	general academic pro	ofile	Assessment form			assessment			
Conducting unit	Department of Software Engineering -> Faculty of Electronics, Telecommunications and Informatics								
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Michał Wróbel						
	Teachers		dr inż. Michał Wróbel						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	0.0	0.0	15.0	0.0		0.0	15	
	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	15		2.0		8.0		25	
Subject objectives	The aim of the course	e is to acquaint	students with t	the practical as	pects of	softwa	ire usability t	esting methods.	

Learning outcomes	Course outcome	Subject outcome	Method of verification				
	[K7_U12] is able, to an increased extent, to analyze the operation of components and systems related to the field of study, as well as to measure their parameters and study their technical characteristics, and to plan and carry out experiments related to the field of study, including computer simulations, interpret the obtained results and draw conclusions	Knows and understands methods for evaluating software usability and can design and conduct usability tests.	[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment				
	[K7_W11] knows and understands, to an increased extent, the general principles of creation and development of forms of individual entrepreneurship and the economic, legal and other conditions of various types of activities related to the awarded qualification, including the principles of protection of industrial property and copyright law	Is able to conduct a usability evaluation of the software to improve its business value.	[SW3] Assessment of knowledge contained in written work and projects				
	[K7_K03] is ready to meet social obligations, inspire and organise activities for the social environment, initiate actions for the public interest, think and act in an entrepreneurial way	Is able to assess accessibility of the software for users with diverse disabilities and constraints.	[SU4] Assessment of ability to use methods and tools				
	[K7_U09] can carry out a critical analysis of the functioning of existing technical solutions and assess these solutions, as well as apply experience related to the maintenance of advanced technical systems, devices and facilities typical for the field of studies, gained in the professional engineering environment	Student uses methods of software usability evaluation.	[SU1] Assessment of task fulfilment				
Subject contents	The laboratory consists of 6 stands where students perform the following tasks: 1. Desktop UX - usability study of desktop applications 2. Mobile UX - usability study mobile applications 3. Eye-tracking - enhanced eye-tracking usability testing 4. FaceReader - enhanced usability tests using emotion recognition 5. OS & Web Accessibility Sight - study of accessibility of the operating system and web pages for people with visual impairment 6. OS & Web Accessibility Hands - study of accessibility of the operating system and web pages for people with motoric impairment						
Prerequisites and co-requisites	Theoretical knowledge related to sof						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Stand No. 4	50.0%	17.0%				
	Stand No. 2	50.0%	17.0%				
	Stand No. 5	50.0%	16.0%				
	Stand No. 6	50.0%	17.0%				
	Stand No. 1	50.0%	16.0%				
	Stand No. 3	50.0%	17.0%				
Recommended reading	Basic literature	Sikorski Marcin, Interakcja czło	n, Interakcja człowiek-komputer, PJWSTK, 2010.				
	Cooper A.: Wariaci rządzą domem wariatów: dlaczego produkty wysokich technologii doprowadzają nas do szaleństwa i co zrobić, żeby tego uniknąć, Warszawa, Wydawnictwa Naukowo-Techniczne, 2001.						
	eResources addresses Adresy na platformie eNauczanie:						
Example issues/ example questions/ tasks being completed	Test the usability of desktop application						
Work placement	Not applicable						

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Data wygenerowania: 24.11.2024 21:09 Strona 2 z 2