

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Quality of Information Systems, PG_00047714								
Field of study	Informatics								
Date of commencement of studies	October 2025		Academic year of realisation of subject			2025/2026			
Education level	second-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	1		Language of instruction			Polish			
Semester of study	1		ECTS credits			6.0			
Learning profile	general academic profile		Assessmer	sessment form			exam		
Conducting unit	Department of Computer Architecture -> Faculty of Electronics Telecommunications and Informatics -> Wydziały Politechniki Gdańskiej								
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Jarosław Kuchta							
	Teachers		dr inż. Jarosław Kuchta						
			prof. dr hab. inż. Bogdan Wiszniewski						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	18.0	0.0	15.0	0.0		0.0	33	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation i classes incluc plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	33		10.0		107.0		150	
Subject objectives	Know how to evaluate software quality and how to manage the quality in the software enterprise.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K7_K02] is ready to provide critical evaluation of received content and to acknowledge the importance of knowledge in solving cognitive and practical problems		requirements			[SK5] Assessment of ability to solve problems that arise in practice [SK1] Assessment of group work skills [SK2] Assessment of progress of work			
	[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		He can indicate deficiencies and defects in the submitted IT project documentation and ways to solve them			[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information			

Subject contents	 Software quality introduction Quality in the software development process Software quality models Quality measurements. ISO 9126 quality metrics CMM/CMMI maturity models ISO 9001 quality management system AHP - comparative quality evaluation by Saaty GQM - metrics applied by goals Quality in Agile Programming Bugs, faults, errors and defects Error models Environment models Program models Testing levels Black-box testing strategies White-box testing strategies Classes of test scenarios Test-case life cycle Structure and attributes of test cases Test implementation methods 						
Prerequisites and co-requisites	Software Engineering						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	Midterm colloquium	50.0%	25.0%				
	Written exam	50.0%	25.0%				
	Practical exercise	50.0%	50.0%				
Recommended reading	Basic literature	 Pressman R., Software Engineering. A Practitioner"s Approach. McGraw-Hill, 2005 Górski J., Inżynieria oprogramowania w projekcie informatycznym. MIKOM, 2000 Bugzilla Documentation, Administrators & End Users: http:// www.bugzilla.org/docs/ Wiszniewski, B., Bogdan Bereza-Jarociński, B.: Teoria i praktyka testowania programów, PWN, 2006 Krawczyk H., Wiszniewski B.: Analysis and Testing of Distributed Software Applications, John Wiley & Sons, 1998. Standard ISO/IEC 9001 Standard ISO/IEC 9012 					
		 Standard ISO/IEC 9126 Mark C. Paulk, Bill Curtis, Mary Beth Chrissis, Charles V. Weber: The Capability Maturity Model for Software 					
	eResources addresses						
Example issues/ example questions/ tasks being completed							
Work placement	Not applicable						

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