

Subject card

Subject name and code	Software Quality, PG_00053909								
Field of study	Informatics								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2026/2027			
Education level	first-cycle studies		Subject group			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	3		Language of instruction			Polish			
Semester of study	6		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Department of Computer Architecture -> Faculty of Electronics, Telecommunications and Informatics						matics		
Name and surname	Subject supervisor		dr inż. Jarosław Kuchta						
of lecturer (lecturers)	Teachers	dr inż. Jarosław Kuchta							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	0.0	15.0		0.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study SUM				
	Number of study hours	30		2.0		43.0		75	
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			
	[K6_U03] can design, according to required specifications, and make a simple device, facility, system or carry out a process, specific to the field of study, using suitable methods, techniques, tools and materials, following engineering standards and norms, applying technologies specific to the field of study and experience gained in the professional engineering environment		Is able to develop a specification of requirements for an IT system, taking into account quality requirements.			[SU1] Assessment of task fulfilment			
[K6_U01] can apply mathema knowledge to formulate and s complex and non-typical prob related to the field of study an perform tasks, in an innovativ way, in not entirely predictable conditions, by:n- appropriate selection of sources and information obtained from the assessment, critical analysis a synthesis of this information, n selection and application of appropriate methods and tools.		ate and solve ical problems study and nnovative redictable reopriate and from them, analysis and mation,n-ttion of				[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 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				
	Problem solving projects	50.0%	50.0%				
	Written exam	50.0%	25.0%				
	Midterm colloquium	50.0%	25.0%				
Recommended reading	McGraw-Hill, 2005 2. Górski J., Inżynieria oprogram MIKOM, 2000 3. Bugzilla Documentation, Admi www.bugzilla.org/docs/ 4. Wiszniewski, B., Bogdan Bere testowania programów, PWN, 5. Krawczyk H., Wiszniewski B.: Software Applications, John W Supplementary literature 1. Standard ISO/IEC 9001						
		 Standard ISO/IEC 9126 Mark C. Paulk, Bill Curtis, Mary Beth Chrissis, Charles V. Weber: The Capability Maturity Model for Software 					
	eResources addresses Adresy na platformie eNauczanie:						
Example issues/ example questions/ tasks being completed							
Work placement	Not applicable						

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Data wygenerowania: 22.11.2024 01:12 Strona 2 z 2