

Subject card

Subject name and code	Data quality assurance, PG_00053008								
Field of study	Data Engineering								
Date of commencement of studies	October 2020		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	3		Language of instruction			Polish			
Semester of study	6		ECTS credits			3.0			
Learning profile	general academic profile		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. Andrzej Wardziński							
	Teachers		dr inż. Andrzej Wardziński dr Paweł Weichbroth						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	15.0	0.0	0.0	15.0		0.0	30	
	E-learning hours included: 0.0								
	Data quality assurance - 2023 - Moodle ID: 17279 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=17279								
Learning activity and number of study hours	Learning activity	arning activity Participation in classes include plan				Self-study		SUM	
	Number of study hours	30		6.0		39.0		75	
Subject objectives	The aim of the course is introduction to aspects of data quality in computer systems and the organization of programs to improve the quality of data								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_W16] Knows the quality attributes of data in information systems and the principles of data management and usage that ensure the level of data quality required for specific applications		The student is able to specify data quality attributes and metrics for practical applications. The student is able to identify and plan actions to ensure the quality of data in the system life cycle.			[SW1] Assessment of factual knowledge			
	[K6_U02] designs, analyses correctness and creates functional specification of IT systems, selects appropriate measures, creates quality models, prepares and assesses their design documentation.					[SU1] Assessment of task fulfilment			
Subject contents	LECTURES: Introduction. The concept of data quality. The attributes of data quality and data business value. Data quality in the data lifecycle. Evaluation and verification of data quality. Data quality improvement programs. PROJECT: Development of the data quality evaluation and improvement program for an exemplary system and execution of the elements of the plan.								
Prerequisites and co-requisites	Completion of the course: Databases								

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Theory	50.0%	50.0%			
	Project	50.0%	50.0%			
Recommended reading	Basic literature	1. Arkady Maydanchik, Data Quality Publications, 2007	Assessment, Technics			
		Danette McGilvray, Executing Data Quality Projects, Elsevier, 200.				
	Supplementary literature	ISO/IEC 25012, Software product Quality Requirements and Evaluation (SQuaRE) – Data quality model				
	eResources addresses					
Example issues/ example questions/ tasks being completed	Sample issues:					
	- How do you measure the quality of data?					
	- What types of activities you can do in order to improve the data quality?					
	- What are the typical data quality problems during data migration and integration?					
	- What databases mechanisms can be used to ensure data quality?					
Work placement	Not applicable					

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