

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Data quality assurance, PG_00053008								
Field of study	Data Engineering								
Date of commencement of studies	October 2023		Academic year of realisation of subject			2025/	2025/2026		
Education level			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	at the university		
Year of study	3		Language of instruction			Polish			
Semester of study	6		ECTS credits			3.0	3.0		
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Software Engineering -> Faculty of Electronics, Telecommunications and Informatics						matics		
Name and surname	Subject supervisor	dr Paweł Weichbroth							
of lecturer (lecturers)	Teachers		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 Learning activity Participation in didactic Participation in Self-study SUM								
Learning activity and number of study hours	Learning activity	Participation in classes includ plan			articipation in onsultation hours		tudy	SUM	
	Number of study hours	30	6.0			39.0 75		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					erification			
	[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.		The student is able to define the objectives and scope of the project to improve the quality of data. Student can define the actions to improve data quality and its verification			[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								
Assessment methods and criteria	Subject passing criteria		Passing threshold			Per	Percentage of the final grade		
	Project		-		50.0%				
	Theory		50.0%			50.0%			

Recommended reading	Basic literature	 Arkady Maydanchik, Data Quality Assessment, Technics Publications, 2007 Danette McGilvray, Executing Data Quality Projects, Elsevier, 2008 			
	Supplementary literature	ISO/IEC 25012, Software product Quality Requirements and Evaluation (SQuaRE) Data quality model			
	eResources addresses	Adresy na platformie eNauczanie:			
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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