

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	DATABASES, PG_00066522							
Field of study	Economic Analytics							
Date of commencement of studies	October 2024		Academic year of realisation of subject			2025/2026		
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	Part-time studies (on-line)		Mode of delivery			blended-learning		
Year of study	2		Language of instruction			Polish		
Semester of study	3		ECTS credits			4.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Department of Inform	atics in Manag	ement -> Facul	lty of Managem	nent and	Econo	omics	
Name and surname	Subject supervisor	Subject supervisor dr inż. Kamil Brodnicki						
of lecturer (lecturers)	Teachers							
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
of instruction	Number of study hours	8.0	0.0	24.0	0.0		0.0	32
	E-learning hours inclu	uded: 18.0						
Learning activity and number of study hours	Learning activity	Participation in classes includ plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	32		6.0		62.0		100
Subject objectives	Designs and implements databases in accordance with theoretical and practical rules							
Learning outcomes	Course outcome Subject outcome Method of verification							
	[K6_U07] Applies advanced information technologies to enhance data analysis and decision-making processes.		defined requirements			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment		
	[K6_W02] Demonstri advanced knowledge and techniques relate of study in economic explain complex prob	requirements modeling and IT			[SW3] Assessment of knowledge contained in written work and projects			
Subject contents	Designing an information system. Place the design in the life cycle of the system. The methodology for designing and modeling. Designing databases as part of management information systems. Engineering requirements. Identification of processes and functions (analysis of function). The logical process model. Modeling the flow of information. Data modeling. The logical data model based on "case study." Optimizing data model. Modeling Interface. Process model stages. Using CASE tools, database schema generation. RDBMS MS SQL Server use to create databases. Design of input and output. Advanced SQL (structured query language) used for creating, modifying databases, and to place and retrieve data from databases.							
Prerequisites and co-requisites								
Assessment methods	Subject passing criteria		Passing threshold			Percentage of the final grade		
and criteria	Final test		75.0%			10.0%		
and chiena								
	Practical exercise		80.0%			35.0%		

Recommended reading	Basic literature	Mendrala, D., Szeliga, M. (2008). Serwer SQL2005Express. Gliwice:Helion Mendrala, D., Szeliga, M. (2012). Microsoft SQL Server Modelowanie eksploracja danych. Gliwice:Helion Johanson, E., Jones, J. (2009). Modelowanie danych w SQL Server 2005 I 2008. Gliwice:Helion Ben-Gan, I. (2012). Microsoft SQL Server 2012.Podstawy Języka T_SQL, APN Promise Petkovic ,D. (2012). Microsoft® SQL Server® 2012: A Beginners Guide. Fifth Edition McGraw-Hill				
	Supplementary literature	Yourdon, E.: (1996). Współczesna analiza strukturalna. Warszawa; WNT.				
	eResources addresses	Adresy na platformie eNauczanie: Bazy Danych NSTAC 2024/2025 - Moodle ID: 36630 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=36630				
Example issues/ example questions/ tasks being completed	Design a simple information system How the processes are identified and modelled? How the data are modelled?					
Work placement	Not applicable					

Document generated electronically. Does not require a seal or signature.