

§ GDAŃSK UNIVERSITY § OF TECHNOLOGY

Subject card

Subject name and code	DATABASES, PG_00058505							
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	Full-time studies		Mode of delivery			at the university		
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	ement -> Faculty of Management and Economics						
Name and surname	Subject supervisor	dr inż. Bartosz Woliński						
of lecturer (lecturers)	Teachers							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project		Seminar	SUM
	Number of study hours	15.0	0.0	30.0	0.0		0.0	45
	E-learning hours included: 0.0							-
Learning activity and number of study hours	Learning activity	Participation in classes includ plan				Self-study		SUM
	Number of study hours	45		10.0		45.0		100
Subject objectives	Designs and implements databases in accordance with theoretical and practical rules							
Learning outcomes	Course outcome Subject outcome Method of verification							
	[K6_W02] demonstrates comprehensive preparation in the field of methods, techniques for formulating and solving problems		, , , , , , , , , , , , , , , , , , ,			[SW3] Assessment of knowledge contained in written work and projects		
	[K6_U07] uses information technologies to improve data analysis and decision-making processes		implements databases based on defined requirements			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools		
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. The physical 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%		
	Practical exercise					30.0% 60.0%		

Recommended reading	Basic literature Supplementary literature eResources addresses	Mendrala, D., Szeliga, M. (2008). Serwer SQL2005Express. Gliwice:Helion Mendrala, D., Szeliga, M. (2012). Microsoft SQL Server Modelowanie i 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 Yourdon, E. (1996). Współczesna analiza strukturalna, Warszawa; WNT. Adresy na platformie eNauczanie:			
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				