



Subject card

Subject name and code	Databases, PG_00068587						
Field of study	Economic Analytics						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
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		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 Informatics In Management -> Faculty Of Management And Economics -> Wydział Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor						
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	8.0	0.0	24.0	0.0	0.0	32
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	32		6.0		62.0	100
Subject objectives	Understanding the basic theoretical and practical principles for creating databases. Acquainting with the database environment on the example of MS Access. Learning the basics of SQL.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_W02] possesses advanced knowledge of methods and techniques that enable precise formulation and effective problem solving.		has knowledge of requirements modeling and system design and applies it to database development		[SW3] Assessment of knowledge contained in written work and projects		
	[K6_U07] uses advanced information technologies to enhance data analysis and decision-making processes.		is able to implement a database based on defined requirements		[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment		

Subject contents	<p>LECTURES: The essence, types of databases. Elements of database construction. Data models and data integrity. Database management systems - DBMS. Database Design. ERD - Entity Relationship Diagram. SQL - Structured Query Language.</p> <p>LABORATORIES: Getting to know MS Access - creating tables, relations, queries (selecting and functional), creating forms and reports. SQL language. Designing databases as elements of management information systems in the enterprise.</p>		
Prerequisites and co-requisites	Knowledge of the MS Office environment.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Practical exercise	60.0%	35.0%
	Project	60.0%	40.0%
	Final test - quiz	60.0%	25.0%
Recommended reading	Basic literature	1. Michael J. Hernandez - Projektowanie baz danych dla każdego. Przewodnik krok po kroku. Helion, Gliwice 2022.	
		2. Michael Alexander, Richard Kusleika - Microsoft Access 2019 PL Biblia. Kompletny Przewodnik. Helion, Gliwice 2019.	
	Supplementary literature	Own materials for classes.	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	Create relationships between tables using primary keys. Show the differences between the update query and the crosstab query. What do we use forms for and what do we use reports in Access? Export the report to a pdf file. Design a database for a sample enterprise based on the collected requirements, taking into account the identified constraints.		
Work placement	Not applicable		

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