



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	<p>Understanding the basic theoretical and practical principles for creating databases.</p> <p>Acquainting with the database environment on the example of MS Access.</p> <p>Learning the basics of SQL.</p>						
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	<table border="1" data-bbox="448 553 1487 689"> <thead> <tr> <th data-bbox="448 553 794 589">Subject passing criteria</th> <th data-bbox="794 553 1141 589">Passing threshold</th> <th data-bbox="1141 553 1487 589">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="448 589 794 624">Practical exercise</td> <td data-bbox="794 589 1141 624">60.0%</td> <td data-bbox="1141 589 1487 624">35.0%</td> </tr> <tr> <td data-bbox="448 624 794 660">Project</td> <td data-bbox="794 624 1141 660">60.0%</td> <td data-bbox="1141 624 1487 660">40.0%</td> </tr> <tr> <td data-bbox="448 660 794 689">Final test - quiz</td> <td data-bbox="794 660 1141 689">60.0%</td> <td data-bbox="1141 660 1487 689">25.0%</td> </tr> </tbody> </table>			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%
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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														

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