



Subject card

Subject name and code	Databases, PG_00037126						
Field of study	Economic Analytics						
Date of commencement of studies	October 2021		Academic year of realisation of subject		2022/2023		
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 Informatics in Management -> Faculty of Management and Economics						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Anna Trzaskowska				
	Teachers		dr inż. Anna Trzaskowska				
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 didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	45		7.0		48.0	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 outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_W09] Knows the ways and tools of acquiring and collecting data, including IT data, used in the analysis and explanation of socio-economic phenomena and processes.		The student knows the methods and tools of obtaining and collecting data to determine the requirements and design an IT system which is a database.		[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge		
	[K6_U08] Has the ability to use mathematical and IT tools to analyse economic phenomena and make decisions by economic entities.		The student learns the DBMS environment and database management methods.		[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject [SU5] Assessment of ability to present the results of task [SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools		
	[K6_K03] Can assess the importance of criteria and tasks in the projects implemented.		The student can implement a database based on defined requirements.		[SK3] Assessment of ability to organize work [SK4] Assessment of communication skills, including language correctness [SK1] Assessment of group work skills [SK2] Assessment of progress of work [SK5] Assessment of ability to solve problems that arise in practice		

Subject contents	LECTURES: The essence, types of databases. Elements of database construction. Data models and data integrity. Database management systems - DBMS. LABORATORIES: Getting to know MS Access - creating tables, relations, queries (selecting and functional), creating forms and reports. Designing databases as elements of management information systems in the enterprise.		
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: Bazy Danych STAC 2022/2023 - Moodle ID: 25803 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=25803	
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		