University of Gdańsk

Subject card

Subject name and code	Data Warehouses in Management, PG_00119038		
Field of study	Economics		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2024/2025
Education level	Master's studies	Subject group	Obligatory subject group in the field of study Specialty subject group
Mode of study	full-time studies	Mode of delivery	at the university
Year of study	1	Language of instruction	Polish
Semester of study	2	ECTS credits	2.0
Learning profile	academic	Assessment form	credit
Conducting unit	Division of Electronic Economy -> Department of Maritime Transport and Seaborne Trade -> Faculty of Economics -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Zuzanna Borda	
	Teachers	dr Zuzanna Borda	

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	15.0	0.0	0.0	0.0	15

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	15	0.0	0.0	15

Subject objectives

The aim of the exercises is the practical application of the knowledge acquired during lectures. Students will be involved in the design and implementation of data warehouses. The exercises are aimed at developing technical and analytical skills.

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[EKONMU2_K04] is ready to think and act in an entrepreneurial manner; adapts to new situations and conditions; undertakes challenges of creative thinking; acquires resilience to failures; can assess risks and threats and find ways of counteracting their effects	Students recognize the enterprise's need for database solutions.	[SK5] implementation of a problem task
	[EKONMU2_W02] has an in-depth knowledge of various types of existing economic entities and organisations as well as an extended knowledge of public institutions	Students recognize the enterprise's need for database solutions.	[SW4] test/exam - oral or written
	[EKONMU2_W07] has an in-depth knowledge of economic and financial principles governing the functioning and management of economic entities and organisations, as well as of systems of legal, organisational, professional, moral and ethical norms and rules organising public structures and institutions, both in the national and international spheres	Students recognize the enterprise's need for database solutions.	[SW4] test/exam - oral or written
	[EKONMU2_U15] can independently expand and improve acquired knowledge and skills in economics; is open to new ideas and techniques; tends to learn using any accessible method and to interact with other participants of the learning process	Students will acquire basic skills in SQL and building data warehouses.	[SU5] implementation of a problem task
	[EKONMU2_U14] can appropriately identify priorities and plan and organise tasks related to their implementation, as well as monitor and assess progress	Students will gain the ability to plan a project in a data warehouse.	[SU5] implementation of a problem task
	[EKONMU2_U13] can manage teamwork as well as interact and work in a team (including in an international environment) assuming a leading role in it	Students will gain the ability to manage a project in a data warehouse.	[SU5] implementation of a problem task
	[EKONMU2_K05] correctly identifies, diagnoses and solves dilemmas and alternative solutions related to the profession	Students will gain the ability to solve logical problems.	[SK5] implementation of a problem task
	[EKONMU2_W11] knows the detailed principles of establishing and developing forms of individual entrepreneurship, using the knowledge of economics, finance and management sciences	Students recognize the enterprise's need for database solutions.	[SW4] test/exam - oral or written
	[EKONMU2_W08] has an in-depth knowledge of processes occurring in enterprises and economic organisations and with related areas, as well as of processes of change in public institutions; knows methods of research on the regularities governing these changes, taking into account the influence of external stakeholders on them	Students recognize the enterprise's need for database solutions.	[SW4] test/exam - oral or written

<table>
<tr><td>Subject contents</td><td>Week 1: Creating tables

Week 2: Table changes and updates

Week 3: ER diagrams and relational diagrams

Week 4: Connecting tables

Week 5: Revision and consolidation

Week 6: Final test

Week 7: Test revision</td></tr>
<tr><td>Prerequisites and co-requisites</td><td>To participate in the exercises it is required to have basic computer skills. Students should be proficient in using operating systems, word processing tools, spreadsheets and have the ability to effectively search for information on the Internet. This knowledge is necessary to perform practical tasks and analyze cases during exercises.</td></tr>
<tr><td>Assessment methods and criteria</td><td><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>Test</td><td>51.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td>Recommended reading</td><td><table><tr><td>Basic literature</td><td>Kimball, R., Ross, M., The Data Warehouse Toolkit: The Definitive Guide to Dimensional Modeling, Wiley, Indianapolis, 2013.

Inmon, W. H., Building the Data Warehouse, Wiley, Hoboken, 2005.

Behrendt, M., Adamson, R., et al., Architecting the Cloud: Design Decisions for Cloud Computing Service Models (SaaS, PaaS, and IaaS), Wiley, Indianapolis, 2013.</td></tr><tr><td>Supplementary literature</td><td>Hughes, R., Agile Data Warehousing for the Enterprise: A Guide for Solution Architects and Project Leaders, Addison-Wesley Professional, 2015.

Collier, K., Agile Analytics: A Value-Driven Approach to Business Intelligence and Data Warehousing, Addison-Wesley Professional, 2011.

Bhatia, P., Data Mining and Data Warehousing: Principles and Practical Techniques, Cambridge University Press, 2019.</td></tr><tr><td>eResources addresses</td><td></td></tr></table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td></td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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