GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Data Warehousing, PG_00053908		
Field of study	Informatics		
Date of commencement of studies	October 2021	Academic year of realisation of subject	2023/2024
Education level	first-cycle studies	Subject group	Optional subject group Subject group related to scientific research in the field of study
Mode of study	Full-time studies	Mode of delivery	blended-learning
Year of study	3	Language of instruction	Polish
Semester of study	5	ECTS credits	3.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Software Engineering -> Faculty of Electronics, Telecommunications and Informatics		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Teresa Zawadzka	
	Teachers	dr inż. Grzegorz Gołaszewski dr inż. Teresa Zawadzka	

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: 13.0

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	4.0	26.0	75

Subject objectives

The objective of the subject is to learn student on basic issues of business intelligence, in particular on design and implementation of a data warehaouse and how to use some selected business intelligence tools.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_W01] Knows and understands, to an advanced extent, mathematics necessary to formulate and solve simple issues related to the field of study	Students know relational algebra and aggregation functions.	[SW1] Assessment of factual knowledge
[K6_W04] Knows and understands, to an advanced extent, the principles, methods and techniques of programming and the principles of computer software development or programming devices or controllers using microprocessors or programmable elements or systems specific to the field of study, and organisation of systems using computers or such devices	The student knows and is able to apply the data model used in data warehouses and build data warehouses compatible with these models.	[SW1] Assessment of factual knowledge

Subject contents

Data warehouse implementation, from requirement to dashboards: project, implementation, optimalization, dashboards.

Prerequisites and co-requisites

basic database course

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Written exam	50.0%	40.0%
Project	50.0%	40.0%
Midterm quizies	50.0%	20.0%

Recommended reading

Basic literature

P. Ponniah: Data Warehousing. J. Wiley&Sons, 2001. K. Goczyła. "Hurtownie danych". Materiały do wykładu. Gdańsk 2009. V. Poe, P. Klauer, S. Brebst: Tworzenie hurtowni danych, WNT 2000

	Supplementary literature	W.H. Inmon: Building the Data Warehouse. J. Wiley&Sons, 2002. R. Kimball: Data Warehouse Toolkit. J. Wiley&Sons, 1996.
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	1. What is OLAP? 2. Design a logical model of a data warehouse	
Work placement	Not applicable	