GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Data Warehousing, PG_00047712		
Field of study	Informatics		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2026/2027
Education level	second-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	blended-learning
Year of study	1	Language of instruction	Polish
Semester of study	1	ECTS credits	6.0
Learning profile	general academic profile	Assessment form	exam
Conducting unit	Department of Software Engineering -> Faculty of Electronics Telecommunications and Informatics -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Teresa Zawadzka	
	Teachers	dr inż. Teresa Zawadzka dr inż. Grzegorz Gołaszewski	

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	12.0	0.0	12.0	12.0	0.0	36

E-learning hours included: 24.0

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	36	10.0	104.0	150

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
[K7_U03] can design, according to required specifications, and make a complex device, facility, system or carry out a process, specific to the field of study, using suitable methods, techniques, tools and materials, following engineering standards and norms, applying technologies specific to the field of study and experience gained in the professional engineering environment	Student can design a data warehouse.	[SU1] Assessment of task fulfilment
[K7_U09] can carry out a critical analysis of the functioning of existing technical solutions and assess these solutions, as well as apply experience related to the maintenance of advanced technical systems, devices and facilities typical for the field of studies, gained in the professional engineering environment	Student can evaluate data warehouse efficiency and optymized its working.	[SU1] Assessment of task fulfilment

Subject contents

Course content – lecture
Data warehouse implementation, from requirement to dashboards: project, implementation, optimalization, dashboards.

Prerequisites and co-requisites

basic database course

<table>
<tr><td>Assessment methods and criteria</td><td colspan="2"><table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>Written exam</td><td>50.0%</td><td>40.0%</td></tr>
<tr><td>Project</td><td>50.0%</td><td>40.0%</td></tr>
<tr><td>Midterm quizies</td><td>50.0%</td><td>20.0%</td></tr>
</table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>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</td></tr>
<tr><td>Supplementary literature</td><td>W.H. Inmon: Building the Data Warehouse. J. Wiley&Sons, 2002. R. Kimball: Data Warehouse Toolkit. J. Wiley&Sons, 1996.</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2">1. What is OLAP?

2. Design a logical model of a data warehouse</td></tr>
<tr><td>Practical activites within the subject</td><td colspan="2">Not applicable</td></tr>
</table>

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