# GDAŃSK UNIVERSITY OF TECHNOLOGY

## Subject card

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| Subject name and code | Data Warehousing, PG_00053908 |
| Field of study | Informatics |

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| Date of commencement of studies | October 2024 | Academic year of realisation of subject | 2026/2027 |
| 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 | 6 | ECTS credits | 3.0 |
| Learning profile | general academic profile | Assessment form | assessment |

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| Conducting unit | Department of Software Engineering -> Faculty of Electronics, Telecommunications and Informatics |

| Name and surname of lecturer (lecturers) | Subject supervisor | dr inż. Teresa Zawadzka |
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| | Teachers | 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 |
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| | Number of study hours | 45 | 4.0 | 26.0 | 75 |

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| 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 |
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| | [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 |

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| 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 |
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| | 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 |
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| | 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: |
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| Example issues/ example questions/ tasks being completed | 1. What is OLAP?<br><br>2. Design a logical model of a data warehouse | |
| Work placement | Not applicable | |

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