University of Gdańsk

Subject card

Subject name and code	Business Intelligence Systems, PG_00156657		
Field of study	Informatics and Econometrics		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2025/2026
Education level	Master's 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	at the university
Year of study	2	Language of instruction	Polish
Semester of study	3	ECTS credits	3.0
Learning profile	academic	Assessment form	credit
Conducting unit	Department of Business Informatics -> Faculty of Management -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Jacek Maślankowski	
	Teachers	dr Jacek Maślankowski	

Lesson types							
	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	9.0	0.0	0.0	9
	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	9	15.0	55.0	79

Subject objectives	
	Familiarizing students with a comprehensive approach to designing reports in Business Intelligence systems.Preparing students to write reporting queries based on databases.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[IiEMU2_K01] The student understands the need for continuous completion and deepening of acquired knowledge. The student inspires and organizes others' learning processes.	adheres to the principles of teamwork in the process of creating reports, adheres to the principles related to the quality of presented data, willingly takes on challenges related to expanding the functionality of reports.	[SK2] presentation/project/paper/ report
[IiEMU2_W04] The student has an in-depth knowledge of advanced mathematical, statistical, econometric and IT methods that enable the acquisition, processing and analysis of data reflecting the functioning and growth of the national economy and its components, as well as the phenomena and processes occurring in their environment.	understands the purpose of creating and using Business Intelligence systems, critically evaluates reports used in Business Intelligence.	[SW2] presentation/project/paper/ report
[IiEMU2_K03] The student is able to communicate freely with the public inside and outside the workplace, transfer his knowledge and share his skills through various media.	adheres to the principles of teamwork in the process of creating reports, adheres to the principles related to the quality of presented data, willingly takes on challenges related to expanding the functionality of reports.	[SK2] presentation/project/paper/ report
[IiEMU2_W05] The student has an in-depth knowledge of socio-economic data sources, their databases and how to create them.	understands the purpose of creating and using Business Intelligence systems, critically evaluates reports used in Business Intelligence.	[SW2] presentation/project/paper/ report
[IiEMU2_U04] The student is able to plan, design, and program information systems at an advanced level, supporting the operation of business entities.	designs tabular, graphical and map reports, creates queries for reporting systems – in SQL and MDX languages, manages the reporting server and automates the processes occurring in them.	[SU2] presentation/project/paper/ report
[IiEMU2_K02] The student can communicate freely with the public on specialised topics in the field of computer science and econometrics in and outside the workplace, communicate his knowledge and share his skills through various media. Culturally participates in discussions, is not afraid to ask questions and knows how to give constructive criticism.	adheres to the principles of teamwork in the process of creating reports, adheres to the principles related to the quality of presented data, willingly takes on challenges related to expanding the functionality of reports.	[SK2] presentation/project/paper/ report
[IiEMU2_U02] The student is able to proficiently acquire detailed information about economic processes and phenomena through direct observation, planned experimentation or database queries, as well as collect and process it using modern information technology tools.	designs tabular, graphical and map reports, creates queries for reporting systems – in SQL and MDX languages, manages the reporting server and automates the processes occurring in them.	[SU2] presentation/project/paper/ report

Subject contents

The Essence of Reporting Services SQL Server Reporting Services, Deployment Scenarios, InstallationPreparing Reports Report Design Planning, Data Retrieval, Layout Design, Interactions and FeaturesData Visualization Charts, Gauges, Indicators, MapsRDL (Report Definition Language) XML Tag Syntax and DescriptionReport Server Security and Administration

<table>
<tr><td>Prerequisites and co-requisites</td><td colspan="3">Knowledge of the basics of database design</td></tr>
<tr><td>Assessment methods and criteria</td><td colspan="3"><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>Project</td><td>51.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">Misner S., Microsoft SQL Server 2012 Reporting Services, Tomy 1 i 2, APN Promise 2013

Januszewski A., Funkcjonalność informatycznych systemów zarządzania. T. 2. Systemy Business Intelligence, PWN 2013</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">Collier K.W., Agile Analytics: A Value-Driven Approach to Business Intelligence and Data Warehousing, Addison Wesley, 2012</td></tr>
<tr><td>eResources addresses</td><td colspan="2"></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="3">Architecture of BI systemsKnowledge of the technical conditions for creating BI projects</td></tr>
<tr><td>Work placement</td><td colspan="3">Not applicable</td></tr>
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