

Subject card

Subject name and code	Databases, PG_00067781								
Field of study	Economic Analytics								
Date of commencement of studies	October 2025		Academic year of realisation of subject			2026/2027			
Education level	first-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	Full-time studies		Mode of delivery			at the university			
Year of study	2		Language of instruction			Polish			
Semester of study	3		ECTS credits			4.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department Of Informatics In Management -> Faculty Of Management And Economics -> Wydziały Politechniki Gdańskiej						lziały		
Name and surname	Subject supervisor								
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	45.0	0.0		0.0	60	
	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 S		SUM	
	Number of study hours	60		5.0		35.0		100	
Subject objectives	Designs and implements databases in accordance with theoretical and practical rules								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_W02] possesses advanced knowledge of methods and techniques that enable precise formulation and effective problem solving.		requirements modeling and IT			[SW3] Assessment of knowledge contained in written work and projects			
	[K6_U07] uses advanced information technologies to enhance data analysis and decision-making processes.		defined requirements			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment			
Subject contents	Designing an information system. Place the design in the life cycle of the system. The methodology for designing and modeling. Designing databases as part of management information systems. Engineering requirements. Identification of processes and functions (analysis of function). The logical process model. Modeling the flow of information. Data modeling. The logical data model based on "case study." Optimizing data model. The physical data model. Modeling Interface. Process model stages. Using CASE tools, database schema generation. RDBMS MS SQL Server use to create databases. Design of input and output. Advanced SQL (structured query language) used for creating, modifying databases, and to place and retrieve data from databases.								
Prerequisites and co-requisites									

Data wygenerowania: 03.05.2025 12:48 Strona 1 z 2

Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	Final test	75.0%	10.0%		
	Practical exercise	80.0%	30.0%		
	Project	60.0%	60.0%		
Recommended reading	Basic literature	Mendrala, D., Szeliga, M. (2008). Serwer SQL2005Express. Gliwice:Helion Mendrala, D., Szeliga, M. (2012). Microsoft SQL Server Modelowanie eksploracja danych. Gliwice:Helion Johanson, E., Jones, J. (2009). Modelowanie danych w SQL Server 2005 I 2008. Gliwice:Helion Ben-Gan, I. (2012). Microsoft SQL Server 2012.Podstawy Języka T_SQL, APN Promise Petkovic ,D. (2012). Microsoft® SQL Server® 2012: A Beginners Guide. Fifth Edition McGraw-Hill			
	Supplementary literature	Yourdon, E. (1996). Współczesna analiza strukturalna, Warszawa; WNT.			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed	Design a simple information system How the processes are identified and modelled? How the data are modelled?				
Work placement	Not applicable				

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Data wygenerowania: 03.05.2025 12:48 Strona 2 z 2