

Subject card

Subject name and code	DATABASE DESIGN, PG_00061877							
Field of study	Engineering Management							
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	Part-time studies (on-line)		Mode of delivery			at the university		
Year of study	3		Language of instruction			Polish		
Semester of study	5		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							
Name and surname	Subject supervisor		dr inż. Bartosz Woliński					
of lecturer (lecturers)	Teachers							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
	Number of study hours	8.0	0.0	16.0	0.0	0.0		24
	E-learning hours inclu	i -		i .				
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study SU		SUM
	Number of study hours	24		7.0		69.0		100
Subject objectives	Designs and implements databases in accordance with theoretical and practical principles							
Learning outcomes	Course outcome Subject outcome Method of veri					ification		
	[K6_W06] classifies the obtained information, evaluating its usefulness to solve the formulated problems					[SW1] Assessment of factual knowledge		
	[K6_U07] applies information technology to improve critical analysis and evaluation of data and management processes		implements databases using appropriate models and IT techniques			[SU4] Assessment of ability to use methods and tools		
Subject contents	Designing an information system The place of design in the life cycle of the system Design and modeling methodology Designing databases as elements of management information systems Requirements engineering Identification of system processes and functions (functional analysis) Logical process model Modeling the flow of information Data modeling Logical data model based on a case study Data model optimization Physical data model Interface modeling Design stages Use of CASE tools, database schema generation RDBMS MS SQL Server use to create databases Input and output design Advanced SQL (Structured Query Language) used to create, modify databases, and put data into and retrieve data from databases							
Prerequisites and co-requisites								

Data wygenerowania: 07.05.2025 18:09 Strona 1 z 2

Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Practical exercises	80.0%	30.0%			
	Pass test	75.0%	10.0%			
	Project	60.0%	60.0%			
Recommended reading	Basic literature	erwer SQL2005Express. flicrosoft SQL Server Modelowanie i delowanie danych w SQL Server Server 2012.Podstawy Języka L Server® 2012: A Beginners				
	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 are processes modeled and identified? How is the data modeled?					
Work placement	Not applicable					

Document generated electronically. Does not require a seal or signature.

Data wygenerowania: 07.05.2025 18:09 Strona 2 z 2