

Subject card

Subject name and code	DATABASES, PG_00058505							
Field of study	Economic Analytics							
Date of commencement of studies	October 2024		Academic year of realisation of subject			2025/2026		
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							
Name and surname of lecturer (lecturers)	Subject supervisor Teachers	dr inż. Bartosz Woliński						
Lesson types and methods	Lesson type	Lecture	Tutorial	al Laboratory Projec		t	Seminar	SUM
of instruction	Number of study hours	15.0	0.0	30.0	0.0		0.0	45
	E-learning hours inclu	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation i consultation h	icipation in sultation hours		udy	SUM
	Number of study hours 45		10.0		45.0		100	
Subject objectives	Designs and implements databases in accordance with theoretical and practical rules							
Learning outcomes	Course out	ect outcome			Method of verification			
	[K6_W02] demonstrates comprehensive preparation in the field of methods, techniques for formulating and solving problems		applies the principles of requirements modeling and IT system design to create databases			[SW3] Assessment of knowledge contained in written work and projects		
	[K6_U07] uses inform technologies to impro analysis and decision processes	ove data	defined requirements			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools		
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 QL 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								
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade		
	Final test					10.0%		
	Practical exercise				30.0%			
Project			60.0%			60.0%		

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Recommended reading	Basic literature	Mendrala, D., Szeliga, M. (2008). Serwer SQL2005Express. Gliwice:Helion Mendrala, D., Szeliga, M. (2012). Microsoft SQL Server Modelowanie i 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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