

Subject card

Subject name and code	DATABASES, PG_00058560								
Subject name and code Field of study	-								
· · · · · · · · · · · · · · · · · · ·	Economic Analytics								
Date of commencement of studies	October 2023		Academic year of realisation of subject			2024/	2024/2025		
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	Part-time studies (on-line)		Mode of delivery			blended-learning			
Year of study	2		Language of instruction			Polish			
Semester of study	3		ECTS credits			4.0	4.0		
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Inform	Department of Informatics in Management -> Faculty of Management and Economics							
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Kamil Brodnicki							
	Teachers	dr inż. Kamil Brodnicki							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	ct Seminar		SUM	
	Number of study hours	8.0	0.0	16.0	0.0		0.0	24	
	E-learning hours included: 18.0								
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study SUM		SUM	
	Number of study hours	24	10.0			66.0 100		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] demonstrates comprehensive preparation in the field of methods, techniques for formulating and solving problems		requirements modeling and IT			[SW3] Assessment of knowledge contained in written work and projects			
	[K6_U07] uses information technologies to improve data analysis and decision-making processes					[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 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									
Assessment methods	Subject passing criteria		Passing threshold		Percentage of the final grade				
and criteria	Project Project		60.0%			40.0%			
	Final test		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 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:				
		Bazy danych NST 2024/2025 - Moodle ID: 40192 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=40192				
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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