

Subject card

Subject name and code	Databases, PG_00031221								
Field of study	Mathematics								
Date of commencement of studies	October 2025		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	Full-time studies		Mode of delivery			at the university			
Year of study	2		Language of instruction			Polish			
Semester of study	4		ECTS credits			4.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department Of Probability Theory And Biomathematics -> Faculty Of Applied Physics And Mathematics -> Wydziały Politechniki Gdańskiej								
Name and surname	Subject supervisor		dr inż. Magda Dettlaff						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	30.0	0.0	30.0	0.0		0.0	60	
	E-learning hours included: 0.0								
	Adresy na platformie eNauczanie:								
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study		SUM		
	Number of study 60 hours		5.0			35.0		100	
Subject objectives	Knowledge of SQL. Ability of designing non complicated data bases.								
Learning outcomes	Course outcome Subject outcome Method of verification						rification		
	K6_W08					[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation			
	K6_U10		the requirements for database systems. He independently designs and implements simple database systems. Work environment: ORACLE, SAS.			[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task			
Subject contents	Lectures and laboratories: Introduction to data bases and relational data model. SQL language: quering and manipulating data. Row and aggregate functions. Joining tables. Subqueries. Data Manipulating Language (DML). Data Definition Language (DDL). Ensuring data integrity. Introduction to modelling and designing computers systems. Normalization of logical schema, functional dependency, normal forms. Using transactions in data base system. Designing and implementing of simple data bese systems. PL/SQL language. Cursors, exceptions and triggers.								
Prerequisites and co-requisites	Knowledge of Introduction to logic and set theory.								
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade			
	Laboratory		45.0%	45.0%		80.0%			
	Tests		45.0%			20.0%			

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Recommended reading	Basic literature	Michael J. Hernandez, Bazy danych dla zwykłych śmiertelników, Mikom, Warszawa, 2004. Rick Greenwald, Robert Stackowiak, Jonathan Stern, Oracle Database 11g. To, co najważniejsze, Wydawnictwo Naukowe PWN, Warszawa 2009.			
		Michael McLaughlin, Oracle Database 11g. Programowanie w języku PL/SQL, Helion, Gliwice			
	Supplementary literature	Jason Price, Oracle Database 12c i SQL. Programowanie, Helion, Gliwice 2015			
		Michael McLaughlin, Oracle Database 12c. Programowanie w języku PL/SQL, Helion, Gliwice 2015			
	eResources addresses				
Example issues/ example questions/ tasks being completed	Make project and implementation of table for storing the data of students.				
Work placement	Not applicable				

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