

Subject card

Cubicat name and and	Modern Database Systems, PC, 00038333							
Subject name and code	Modern Database Systems, PG_00038333							
Field of study	Automation, Robotics and Control Systems							
Date of commencement of studies	October 2022		Academic year of realisation of subject			2023/2024		
Education level	second-cycle studies		Subject group			Optional subject group		
						Subject group related to scientific research in the field of study		
Mode of study	Part-time studies		Mode of delivery			at the university		
Year of study	2		Language of instruction			Polish		
Semester of study	3		ECTS credits			3.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Faculty of Electrical and Control Engineering							
Name and surname	Subject supervisor prof. dr hab. inż. Grzegorz Redlarski							
of lecturer (lecturers)	Teachers							
Lesson types and methods	Lesson type	Lecture	Tutorial Laboratory Project Semina		Seminar	SUM		
of instruction	Number of study hours	10.0	0.0	10.0	0.0		0.0	20
	E-learning hours inclu	uded: 0.0	0.0					
Learning activity and number of study hours	Learning activity	Participation i classes including		Participation in consultation hours		Self-study		SUM
	Number of study hours	20		8.0		47.0		75
Subject objectives	Intruduction of the data base rationale. Description of data base characteristics. Introduction to programing in SQL and writing SQL sueries. Data Manipulation Language. Data Definition Language. Data Query Language.							
Learning outcomes	comes Course outcome		Subject outcome			Method of verification		
	K7_W02		The student is able to design and create a database, and present its documentation in the form of a multimedia presentation and / or text			[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects		
	K7_U10		The student is able to create a database using for this an appropriate / specialized IT tools			[SU1] Assessment of task fulfilment		
Subject contents	Databases rationale. Database characteristics. Relational data model. Indexing in relational databases. Programming in SQL Queries, projection, expressions, aliases. WHERE clause and logical conditions. HAVING, GROUP BY clauses and aggregating functions. Relation joins. Sub-queries. Adding and modifying records. Creating tables.							
Prerequisites and co-requisites								
Assessment methods	Subject passing criteria		Passing threshold		Percentage of the final grade			
and criteria	Final test		60.0%		50.0%			
	Introductory tests		60.0% 60.0%		25.0% 25.0%			
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Recommended reading	Basic literature		 Chrisa Date, <i>Database in Depth</i> (OReilly) MySQL Manual (http://dev.mysql.com/doc) PostgreSQL Manual (http://www.postgresql.org/docs) 					
	Supplementary literature		 Wiesław Dudek, 'Bazy danych SQL, Teoria i praktyka' Michael J. Hernandez., "Bazy danych dla zwykłych śmiertelników" Lynn Beighley, Head First SQL: Your Brain on SQL A Learner's Guide 					
	eResources addresses		Adresy na platformie eNauczanie:					

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tasks being completed	List database features Give an example of database application in automatic control or robotics For a given set of relations, write a query using projections, expressions and aliases. For a given set of relations, write a query using join. For a given set of relations, write a query using subquery.
Work placement	Not applicable

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