

Subject card

Subject name and code	Transfer, collection and data security, PG_00044137							
Field of study	Mathematics							
Date of commencement of studies	October 2024		Academic year of realisation of subject			2024/2025		
Education level	second-cycle studies		Subject group					
Mode of study	Full-time studies		Mode of delivery			at the university		
Year of study	1		Language of instruction			Polish		
Semester of study	2		ECTS credits			4.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Institute of Applied Mathematics -> Faculty of Applied Physics and Mathematics							
Name and surname	Subject supervisor		dr inż. Magdalena Chmara					
of lecturer (lecturers)	Teachers		dr hab. Paweł Pilarczyk dr inż. Magdalena Chmara					
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project	t	Seminar	SUM
of instruction	Number of study hours	30.0	0.0	15.0	15.0		0.0	60
	E-learning hours inclu	cluded: 0.0						
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation is consultation h			udy	SUM
	Number of study hours	60		5.0		35.0		100
Subject objectives	The purpose of the course is to familiarize you with the formats and tools for secure data storage, analysis and transmission							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
Subject contents	- overview of different types of databases - creation of database applications - data transmission on the internet - OSI model - Security of databases - RODO - elements of cryptography - threats to data							
Prerequisites and co-requisites	databases and progra	amming						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade			
	Project		60.0%		34.0%			
	Laboratory		60.0% 60.0%		33.0% 33.0%			
Recommended reading	Basic literature Supplementary literature		Deshpande, Prachi S., et al. Security and Data Storage Aspect in Cloud Computing by Prachi S. Deshpande, Subhash C. Sharma, Sateesh K. Peddoju. Springer Singapore, 2019. Shannon Bradshaw Eoin Brazil, Chodorow, Kristina. MongoDB: Powerful and Scalable Data Storage OReilly, 2019. Hu, Fei. Big Data: Storage, Sharing, and Security / Edited by Fei Hu. CRC Press, 2016.					

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	eResources addresses	Uzupełniające Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed	How to keep your data safe on the Internet? The differences between the HTTP and HTTPS protocols.				
	Differences between relational and graph databases.				
Work placement	Not applicable				

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