

Subject card

Subject name and code	Monographic Lectures, PG_00048298							
Field of study	Informatics							
Date of commencement of studies	February 2023		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	Full-time studies		Mode of delivery			at the university		
Year of study	1		Language of instruction			Polish		
Semester of study	2		ECTS credits			2.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Department of Geoinformatics -> Fac		culty of Electro	municat	ons and Informatics			
Name and surname	Subject supervisor		dr hab. inż. Marek Moszyński					
of lecturer (lecturers)	Teachers dr hab. inż. Marek Moszyński							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	Project Semin		SUM
	Number of study hours	15.0	0.0	0.0 0.0			15.0	30
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM
	Number of study hours 30			4.0		16.0		50
Subject objectives	Introduction to driving problems of geoinformation systems							
Learning outcomes	Course outcome Subject outcome Method of verification							
	[K7_W03] Knows and understands, to an increased extent, the construction and operating principles of components and systems related to the field of study, including theories, methods and complex relationships between them and selected specific issues - appropriate for the curriculum.		Student identifies problems related to the use of geoinformation technologies in information systems.			[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation		
	[K7_W41] Knows and understands, to an increased extent, the standards, production methods, life cycle and development trends of software as well as information systems and applications.		Student presents examples of applications using geoinformation technologies and mobile applications of geoinformation systems			[SW2] Assessment of knowledge contained in presentation		
	[K7_W06] Knows and understands, to an increased extent, the basic processes taking place in the life cycle of devices, facilities and technical systems.		Student presents selected devices and instruments used in geoinformation systems			[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation		
Subject contents	Taxonomy of technologies using information systems with particular emphasis on geoinformation systems Selected problems related to the use of geoinformatic systems in Earth observation Selected problems related to the use of geoinformatic systems in telecommunications Selected problems related to the use of geoinformatic systems in satellite navigation systems European institutions and their activities in the use of satellite technologies Trends and flywheels for the development of economies based on the use of geoinformation technologies							
Prerequisites and co-requisites	No requirements							
Assessment methods	Subject passin	Passing threshold			Per	Percentage of the final grade		
and criteria	project development timeline		55.0%			100.0%		

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Recommended reading	Basic literature	Konceny G. "Geoinformation, Remote Sensing, Photogrammerty and Geographic Information Systems", Taylor & Francis Group, New York 2003				
		2. Longley P., Goodchild M., Maguire D., Rhind D. "Geographic Information Systems and Science", John Wiley & Sons Ltd., West Sussex 2005				
		Stepnowski A. "Systemy akustycznego monitoringu środowiska morskiego", Gdańskie Towarzystwo Naukowe, Gdańsk 2001				
	Supplementary literature	No requirements				
	eResources addresses	Adresy na platformie eNauczanie:				
		Wykład monograficzny TMiG 2023 - Moodle ID: 29479 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=29479				
Example issues/ example questions/ tasks being completed	Information technologies supporting large-scale processing Platforms for the visualization of large-scale data Platforms for storing and sharing satellite images Cloud computing with the use of satellite data Time analysis of satellite images The use of machine learning to extract information from satellite data The use of deep learning and neural networks to analyze satellite images					
Work placement	Not applicable					

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