

## Subject card

Subject name and code	Monographic Lectures, PG_00048298								
Field of study	Informatics								
Date of commencement of						0004/0005			
studies	February 2024		Academic year of realisation of subject			2024/	2024/2025		
Education level	second-cycle studies		Subject gro	oup			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	at the university		
Year of study	1		Language of instruction			Polish	Polish		
Semester of study	2		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			asses	assessment		
Conducting unit	Department of Geoin	culty of Electro	ilty of Electronics, Telecommunications 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 Project		et	Seminar	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 included plan			Participation in consultation hours		tudy	SUM	
	Number of study hours	umber of study 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_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			[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects			
	[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_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.			[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects			
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	Subject passing criteria Passing threshold F			Per	Percentage of the final grade			
and criteria	project development timeline		55.0%			100.0%			

Data wydruku: 19.05.2024 17:09 Strona 1 z 2

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:				
Example issues/ example questions/ tasks being completed	1. Information technologies supporting large-scale processing 2. Platforms for the visualization of large-scale data 3. Platforms for storing and sharing satellite images 4. Cloud computing with the use of satellite data 5. Time analysis of satellite images 6. The use of machine learning to extract information from satellite data 7. The use of deep learning and neural networks to analyze satellite images					
Work placement	Not applicable					

Data wydruku: 19.05.2024 17:09 Strona 2 z 2