



Subject card

Subject name and code	Applications of Geo-oriented Information Systems, PG_00058854						
Field of study	Informatics						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2027/2028		
Education level	first-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	3		Language of instruction		Polish		
Semester of study	6		ECTS credits		6.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Geoinformatics -> Faculty of Electronics Telecommunications and Informatics -> Wydział Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Zbigniew Łubniewski				
	Teachers		dr hab. inż. Zbigniew Łubniewski dr inż. Jerzy Demkowicz				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	15.0	0.0	30
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	30		12.0		108.0	150
Subject objectives	Learning by students on knowledge and practical skills on Geographic Information Systems and their various applications						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
Subject contents	Introduction Municpal GIS systems Modelling and solving of logistic problems in GIS Routing and it"s optimization Web-based digital charts for navigations support Remote data acquisition GIS systems Mobile GIS systems Navigation plotters 3D navigation systems						
Prerequisites and co-requisites	No requirements						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Project		50.0%		50.0%		
	Written exam		50.0%		50.0%		
Recommended reading	Basic literature		1. Stepnowski A. "Systemy akustycznego monitoringu środowiska morskiego", Gdańskie Towarzystwo Naukowe, Gdańsk 2001				
	Supplementary literature		The GIS Book, George Korte				
	eResources addresses						
Example issues/ example questions/ tasks being completed							
Work placement	Not applicable						

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