



## Subject card

Subject name and code	Applications of Geo-oriented Information Systems, PG_00058854						
Field of study	Informatics						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2028/2029		
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 -> Faculties of Gdańsk University of Technology						
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	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	Course content – lecture Introduction Municipal 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		
	Written exam		50.0%		50.0%		
	Project		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							
Practical activities within the subject	Not applicable						

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