



## Subject card

Subject name and code	Geoinformatics project management, PG_00062031						
Field of study	Geodesy and Cartography						
Date of commencement of studies	February 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	Department of Geodesy -> Faculty of Civil and Environmental Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Katarzyna Bobkowska				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	10.0	0.0	15.0	0.0	55
	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	55		10.0		35.0	100
Subject objectives	Introducing students to the basics of project management.Introducing students to the PRINCE2 project management methodology.Introducing students to the scope of the GIS project.Introducing students to the stages of the GIS planning methodology.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_W07] knows the structure of the geoinformatic system, the stages of the geoinformatic project development and operation, the legal, economic and ethical aspects of the geoinformatic projects, national and European conditions in the field of geoinformation		Has knowledge of the structure of the geoinformatic system.		[SW1] Assessment of factual knowledge		
	[K7_W08] knows spatial data models in the context of relational and object-oriented databases, principles of designing and building spatial databases, basics of databases in XML, development trends in spatial databases		Has knowledge of spatial data models.		[SW1] Assessment of factual knowledge		
	[K7_W12] knows methods of spatial analysis, geometric concepts, spatial statistics, knowledge extraction methods, network analysis, optimization methods, application of artificial intelligence methods in spatial analysis		Has knowledge of performing spatial data analyzes on vector and raster data.		[SW1] Assessment of factual knowledge		
	[K7_U15] can implement geoinformatical projects and perform a feasibility study of the project		Is able to prepare a project feasibility study.		[SU1] Assessment of task fulfilment		
	[K7_U06] can perform basic and complex spatial analysis, can create spatial metadata, and use these metadata		Is able to create spatial metadata.		[SU4] Assessment of ability to use methods and tools		

Subject contents	<p>Introduction to project management.</p> <p>Risk management.</p> <p>Scope of GIS projects.</p> <p>Stages of GIS planning methodology.</p>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Test	60.0%	70.0%
	Exercise reports/Exercise evaluation	80.0%	15.0%
	Project report(s) / Assessment of project tasks	80.0%	15.0%
Recommended reading	Basic literature	<p>Rozważania o GIS, Planowanie Systemów Informacji Geograficznej dla menadżerów, Roger Tomlinson, ESRI Polska, 2008</p> <p>Management of Risk: Guidance for Practitioners (M_o_R), TSO, 2020</p> <p>Managing Successful Projects with PRINCE2®, 2017</p> <p>Zarządzenie Rektora Politechniki Gdańskiej nr 7/2023 z 15 lutego 2023 r.</p>	
	Supplementary literature	<p>Geoinformation standardsArticles in scientific journals</p>	
	eResources addresses	<p>Adresy na platformie eNauczanie:</p> <p>Zarządzanie projektami geoinformatycznymi - Moodle ID: 42425  <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=42425">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=42425</a></p>	

Example issues/ example questions/ tasks being completed	<ol style="list-style-type: none"> <li>1. Briefly discuss the scope of a GIS project.</li> <li>2. Briefly discuss the stages of GIS planning.</li> <li>3. What is a feasibility study for a geoinformatics project?</li> <li>4. List features of GIS software.</li> <li>5. What is risk management in geoinformatics projects?</li> <li>6. How do traditional project management methods differ from modern ones?</li> <li>7. Briefly characterize the project preparation process.</li> <li>8. List aspects of project effectiveness.</li> <li>9. List the responsibilities of a project manager.</li> <li>10. List 5 roles in a geoinformatics project and characterize their assigned duties.</li> <li>11. Describe the organization in a geoinformatics project.</li> <li>12. Describe issues related to quality in geoinformatics projects.</li> <li>13. What is the difference between risk appetite and risk tolerance?</li> </ol>
Work placement	Not applicable

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