

Subject card

Subject name and code	, PG 00069058									
Field of study	Geodesy and Cartography									
Date of commencement of	February 2025	Academic year of			2025/2026					
studies	,		realisation of subject			2020/2020				
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			3.0				
Learning profile	general academic profile		Assessment form			assessment				
Conducting unit	Department of Geodesy -> Faculty of Civil and Environmental Engineering -> Faculties of Gdańsk University of Technology							ańsk University		
Name and surname	Subject supervisor		dr inż. Katarzyna Bobkowska							
of lecturer (lecturers)	Teachers									
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project Seminar		SUM			
	Number of study hours	15.0	0.0	30.0	0.0	0.0		45		
	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	45		0.0	0.0			45		
Subject objectives	 Introducing students to the basics of project management. 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_W05] has a well-established knowledge of analytical methods and surveying techniques necessary for creating and solving a variety of problems in geodesy and cartography		Has knowledge of methods and tools used in geoinformatics project management, including planning, risk assessment, and implementation of tasks in the GIS environment.			[SW1] Assessment of factual knowledge				
	[K7_U06] creates sol complex and unstruc problems taking into variability of the envir synthesising informat different sources, usi and simulation metho	tured account the ronment by tion from ng analytical	present a geo taking into acc	edule, risks, and	ject,	[SU5] Assessment of ability to present the results of task				
Subject contents	 Course content – lecture Basic concepts and significance of geoinformatics project management. Project life cycle stages of planning, implementation, monitoring, and closure. Scope and characteristics of geoinformatics projects in administration, environmental management, and engineering. Project organizational structure roles and responsibilities of team members. Project planning defining objectives, schedule, resources, and budget. Identification and analysis of risks in GIS projects. Quality control and change management during project implementation. Principles of communication and team management. Overview of selected project management methodologies. Case studies examples of geoinformatics project implementation. Course content – laboratory Identification of GIS system user needs analysis of functional and business requirements. Project planning based on conversations with a simulated stakeholder (AI) defining goals, requirements, and constraints. SWOT and risk analysis for geoinformatics projects. Development of project task structure and schedule (WBS, Gantt). Time and priority management use of tools such as Kanban and Trello. Team communication and project progress reporting. Presentation of project results and reflection on the management process. 									

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Prerequisites and co-requisites	The student has basic knowledge of Geographic Information Systems (GIS) and understands the importance of spatial data in engineering and decision-making processes.					
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Reports	80.0%	30.0%			
	Test	60.0%	70.0%			
Recommended reading	Basic literature	Tomlinson R., Zarządzanie projektami GIS, Wydawnictwo ESRI Press / Helion, Gliwice, 2016. PRINCE2® Foundation, Zarządzanie projektami metodyką PRINCE2, AXELOS / TSO, Warszawa, 2017. PMBOK® Guide, Przewodnik po zarządzaniu projektami, Project Management Institute, Warszawa, 2021. Kerzner H., Zarządzanie projektami. Kompendium wiedzy, Wydawnictwo PWN, Warszawa, 2019.				
	Supplementary literature	Didactic materials and laboratory instructions available on the eNauczanie PG platform				
	eResources addresses					
Example issues/ example questions/ tasks being completed	 Scope and stages of geoinformatics project management. Definitions of a project and project management. Life cycle of a geoinformatics project. Project organizational structure. Role of the project manager and project team members. Stakeholder analysis in a project. Project scope and planning. Resource planning and project scheduling. Risk management in GIS projects. Communication within the project team. Monitoring and evaluation of project progress. Case studies examples of geoinformatics projects. 					
Practical activites within the subject	Not applicable					

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