GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00073149		
Field of study	Geodesy and Cartography		
Date of commencement of studies	February 2026	Academic year of realisation of subject	2026/2027
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			
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Artur Fischer	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	30.0	15.0	0.0	0.0	0.0	45

E-learning hours included: 0.0

eNauczanie source addresses:

Moodle ID: 9343 Zarządzanie projektami geoinformatycznymi
https://enauczanie.pg.edu.pl/2025/course/view.php?id=9343

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	45	0.0	0.0	45

Subject objectives

- To familiarize students with the fundamentals of project management.
- To familiarize students with the scope of a geoinformatics research project.
- To familiarize students with the stages of the research project planning methodology.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_U06] creates solutions to complex and unstructured problems taking into account the variability of the environment by synthesising information from different sources, using analytical and simulation methods	Is able to plan, develop, and present a geoinformatics research project, taking into account needs analysis, scheduling, risks, and implementation efficiency.	[SU5] Assessment of ability to present the results of task
[K7_W71] has general knowledge in humanistic, social, economic or legal sciences, including their fundamentals and applications	Knows the basic principles of managing geoinformatics research projects, including planning, organization, resource and risk management, and evaluation of project implementation efficiency.	[SW1] Assessment of factual knowledge

Subject contents

Course content – lecture

- Basic concepts and importance of managing geoinformatics research projects.
- Project life cycle – stages of planning, execution, monitoring, and closure.
- Scope and specific characteristics of geoinformatics research projects.
- Project organizational structure, roles, and responsibilities of team members.
- Project planning – defining objectives, schedule, resources, and budget.
- Risk identification and analysis in geoinformatics research projects.
- Quality control and change management during project execution.
- Principles of communication and project team management.
- Overview of selected project management methodologies.
- Case studies – examples of geoinformatics research project implementation.

Course content – exercises

- Identification of geoinformatics research project stakeholders and analysis of their needs and requirements.
- Geoinformatics research project planning – defining objectives, scope, requirements, and constraints.
- SWOT analysis and risk analysis for geoinformatics research projects.
- Development of the work breakdown structure and project schedule (WBS, Gantt).
- Time and priority management.
- Communication within the project team and progress reporting.
- Presentation of geoinformatics research project results and reflection on the project management process.

Prerequisites and co-requisites

The student has basic knowledge of project preparation and understands the importance of spatial data in engineering and decision-making processes.

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Test	60.0%	70.0%
Reports	80.0%	30.0%

Recommended reading

Basic literature	• Tomlinson R., Thinking About GIS: Geographic Information System Planning for Managers, 5th ed., Esri Press, Redlands, 2013. • AXELOS, Managing Successful Projects with PRINCE2, 6th ed., The Stationery Office, London, 2017. • Project Management Institute, A Guide to the Project Management Body of Knowledge (PMBOK® Guide) – Seventh Edition and The Standard for Project Management, Project Management Institute, 2021. • Kerzner H., Project Management: A Systems Approach to Planning, Scheduling, and Controlling, 12th ed., Wiley, 2017.
Supplementary literature	Teaching materials and exercise instructions are available on the PG eNauczanie platform.
eResources addresses	

Example issues/ example questions/ tasks being completed

- Scope and stages of managing geoinformatics research projects.
- Definitions of a project and project management.
- Life cycle of a geoinformatics research project.
- Organizational structure of a research project.
- Roles of the project manager and project team members.
- Stakeholder analysis in a research project.
- Scope and planning of a research project.
- Resource planning and scheduling of a research project.
- Risk management in geoinformatics research projects.
- Communication within the project team.
- Monitoring and evaluation of research project progress.
- Case studies – examples of geoinformatics research projects.

Practical activites within the subject	Not applicable

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