GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Geoinformatics project management, PG_00062031		
Field of study	Geodesy and Cartography		
Date of commencement of studies	February 2023	Academic year of realisation of subject	2023/2024
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_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
[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_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_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_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

Subject contents	Introduction to project management. Risk management. Scope of GIS projects. Stages of GIS planning methodology.
Prerequisites and co-requisites	

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Project report(s) / Assessment of project tasks	80.0%	15.0%
Exercise reports/Exercise evaluation	80.0%	15.0%
Test	60.0%	70.0%

Recommended reading

Basic literature	Rozważania o GIS, Planowanie Systemów Informacji Geograficznej dla menadżerów, Roger Tomlinson, ESRI Polska, 2008 Management of Risk: Guidance for Practitioners (M_o_R), TSO, 2020 Managing Successful Projects with PRINCE2®, 2017 Zarządzenie Rektora Politechniki Gdańskiej nr 7/2023 z 15 lutego 2023 r.
Supplementary literature	Geoinformation standardsArticles in scientific journals
eResources addresses	Adresy na platformie eNauczanie:

Example issues/ example questions/ tasks being completed	1. Briefly discuss the scope of a GIS project. 2. Briefly discuss the stages of GIS planning. 3. What is a feasibility study for a geoinformatics project? 4. List features of GIS software. 5. What is risk management in geoinformatics projects? 6. How do traditional project management methods differ from modern ones? 7. Briefly characterize the project preparation process. 8. List aspects of project effectiveness. 9. List the responsibilities of a project manager. 10. List 5 roles in a geoinformatics project and characterize their assigned duties. 11. Describe the organization in a geoinformatics project. 12. Describe issues related to quality in geoinformatics projects. 13. What is the difference between risk appetite and risk tolerance?
Work placement	Not applicable