



Subject card

Subject name and code	, PG_00064576						
Field of study	Spatial Development						
Date of commencement of studies	October 2023		Academic year of realisation of subject		2026/2027		
Education level	first-cycle studies		Subject group				
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	4		Language of instruction		Polish		
Semester of study	7		ECTS credits		1.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Urban Transformation -> Faculty of Architecture -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Natalia Sokół				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	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	15		0.0		0.0	15
Subject objectives	The aim of the course Diploma Project Modules is to develop students advanced competencies in the visualization and communication of results from their diploma project analyses. The course focuses on the methodological selection of appropriate data presentation formats, their interpretation, and the adaptation of communication to diverse audiences, taking into account academic and conference standards. Participants will work with their own empirical or experimental datasets to prepare an oral presentation for their diploma defense or a scientific conference. The classes are practice-oriented and aim to develop the ability to create clear, reliable, and engaging presentations of project outcomes. As a result of participating in the course, students will improve the effectiveness of their project communication during the diploma defense.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K6_W06] has knowledge of the structures and organizations involved in the space management process, knows the principles and legal basis of their operation and has a basic knowledge of the relationships between structures and social institutions on a local, regional, national and international scale, as well as on intercultural relations	The student has basic knowledge of the importance of data analysis and presentation in processes related to spatial management.	[SW1] Assessment of factual knowledge
	[K6_W05] has basic knowledge in the field of city and region development management and implementation of investment projects, and also knows the principles of conducting business related to space management and general principles of creating and developing forms of individual entrepreneurship	The student has basic knowledge of the role of spatial and socio-economic data analysis in the processes of managing urban and regional development, preparing investment projects, and supporting decision-making in spatial planning and land-use management.	[SW3] Assessment of knowledge contained in written work and projects
	[K6_W08] has a basic knowledge of the role of planner and urban planner, knowledge of intellectual property protection and the application of copyright law, knows the rules in the profession of planner and urban planner	Knows basic methods for collecting and analysing data in project and research contexts. Can interpret quantitative and qualitative data and transform them into clear graphical and textual outputs. Can apply appropriate forms of data visualisation depending on the nature of the data and the purpose of the presentation. Presents the results of analyses clearly and logically, respecting principles of aesthetics and effective communication. Works collaboratively in a team and critically evaluates their own work and that of others.	[SW3] Assessment of knowledge contained in written work and projects
Subject contents	Course content – lecture As part of the course, students will attend introductory lectures based on specific examples that present methods for the effective presentation of research data, principles for preparing conference presentations, scientific posters, and graphics for academic publications. Work during classes: The workshop sessions are practice-oriented and based on working with participants own research data. Students will complete mini-exercises involving the preparation of selected forms of data presentation: an oral presentation intended for use during a conference or faculty review, a scientific poster prepared for conference events, a graphical poster illustrating results published in a scientific article, a short multimedia presentation summarizing progress in the doctoral research. The classes also include elements of visual design (typography, hierarchy of information, clarity of communication) as well as the use of tools supporting data presentation. Analysis: Each student will be required to conduct a critical analysis of a selected form of data visualization both their own and that of others in terms of clarity of communication, reliability of presentation, compliance with scientific standards, and visual quality. An additional component will involve self-evaluation of the prepared presentation based on previously defined criteria. During the course, individual consultations with the instructor are planned, enabling feedback and refinement of the developed forms of communication.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	2 presentations	60.0%	40.0%
	design of the boards	60.0%	20.0%
	work during the class on the presentation boards	60.0%	40.0%

Recommended reading	Basic literature	- Kasperski, J. (2021). Metody graficznej prezentacji danych naukowych. Teoria i przykłady zastosowań (Wyd. I). Oficyna Wydawnicza Politechniki Warszawskiej. - Jambor HK, Bornhäuser M. Ten simple rules for designing graphical abstracts. PLoS Comput Biol. 2024 Feb 1;20(2):e1011789. doi: 10.1371/journal.pcbi.1011789. PMID: 38300895; PMCID: PMC10833524.
	Supplementary literature	- Tufte, E. R. (2001). <i>The visual display of quantitative information</i> (2nd ed.). Cheshire, CT: Graphics Press. - Healy, K. (2018). <i>Data visualization: A practical introduction</i>. Princeton University Press. - McCandless, D. (2009). <i>Information is beautiful</i>. Collins. - Cairo, A. (2016). <i>The truthful art: Data, charts, and maps for communication</i>. New Riders.
	eResources addresses	
Example issues/ example questions/ tasks being completed	Proposed tasks: Mini-exercises involving the independent development of a selected dataset: Selection of appropriate presentation methods (charts, diagrams, timelines, comparative analyses). Preparation of a graphical report including description and conclusions. Practice of oral presentations with the results of the analysis presented in a multimedia format. Peer review and group discussion of the presentations. Preparation of four presentation boards for the diploma defense.	
Practical activities within the subject	Not applicable	

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