



Subject card

Subject name and code	, PG_00071327						
Field of study	Architecture						
Date of commencement of studies	October 2023		Academic year of realisation of subject		2025/2026		
Education level	first-cycle studies		Subject group				
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	3		Language of instruction		Polish		
Semester of study	5		ECTS credits		2.0		
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						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Dominika Wróblewska				
	Teachers		dr inż. Dominika Wróblewska				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	5.0	20.0	0.0	0.0	0.0	25
	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	25		0.0		0.0	25
Subject objectives	The main goal of the micro-course is to equip participants with practical knowledge and skills in the Design Thinking method, enabling them to creatively and systematically solve complex, unresolved problems (so-called "ill-defined problems") in various social, business, and organizational contexts. Students will learn how to put the user at the center of the design process to create solutions that are not only innovative, but above all useful and desirable.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_W02] knows and understands the rules of gathering information and their interpretation as a part of project concept preparation; issues related to architecture and urban planning in the field of simple design problems solving		The student possesses structured knowledge of the stages of the Design Thinking process (empathize, define, ideate, prototype, test) and its key concepts (e.g., empathy, pivot point, prototype, iteration) within the context of architectural design.		[SW3] Assessment of knowledge contained in written work and projects		
	[K6_U01] is able to use the experience gained during studies to critically analyze the conditions and formulate conclusions for design in an interdisciplinary context		he student is able to apply Design Thinking methods and tools to identify user needs, analyse and synthesise research findings, define a design problem, generate and evaluate ideas, and prototype and test solutions for inclusive spaces for people with ADHD. The student is able to develop the structure and materials for a Design Thinking workshop leading to a design solution.		[SU1] Assessment of task fulfilment		

Subject contents	Course content – lecture Introduction to Design Thinking: What Design Thinking is and is not; Philosophy and origins of the method; The difference between design thinking and analytical thinking; Case studies: examples of success achieved through DT. Stage 1 – Empathize. Understanding the user: Empathy as the foundation of the process – "stepping into the user's shoes"; Research methods: in-depth interviews, observation, shadowing; Practical exercise: conducting a mini-interview based on a brief. Stage 2 – Define. Analysis and synthesis of collected data; Persona creation; User journey mapping; Formulating the question – "How might we...?" Stage 3 – Ideate: Principles of effective brainstorming; Creative techniques: mind mapping, sketching, SCAMPER; Selection and evaluation of ideas; other methods. Stage 4 & 5 – Prototype and Test: The role of a prototype; Forms of prototyping; Principles of effective user testing; Iteration – using feedback to refine the solution.		
	Course content – exercises Project: development of the structure, scenario and materials for a Design Thinking workshop focused on identifying user needs and designing inclusive spaces for people with ADHD.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Team project – development of the structure and materials for a Design Thinking workshop, including presentation of the solution	50.0%	100.0%
Recommended reading	Basic literature	Brown T., Change by Design: How Design Thinking Transforms Organizations and Inspires Innovation, Harper Business. Lewrick M., Link P., Leifer L., The Design Thinking Toolbox: A Guide to Mastering the Most Popular and Valuable Innovation Methods, Wiley. Steinfeld E., Maisel J., Universal Design: Creating Inclusive Environments, Wiley.	
	Supplementary literature	Kelley T., Kelley D., Creative Confidence: Unleashing the Creative Potential Within Us All. IDEO.org, The Field Guide to Human-Centered Design.	
	eResources addresses		
	Example issues/ example questions/ tasks being completed	Analysis of differences between Design Thinking and traditional analytical approaches	
Practical activities within the subject	Not applicable		

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