

Subject card

Subject name and code	Systems theory, PG_00064953								
Field of study	Spatial Development								
Date of commencement of studies			Academic year of realisation of subject			2024/2025			
Education level	second-cycle studies		Subject group			Obligatory subject group in the			
						field of study Humanistic-social 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	1		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Urban	gional Planning -> Faculty of Archite							
Name and surname	Subject supervisor	prof. dr hab. Elżbieta Wojnicka-Sycz							
of lecturer (lecturers)	Teachers		prof. dr hab. Elżbieta Wojnicka-Sycz						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	10.0	5.0	0.0	0.0		0.0	15	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	y 15 2.0			2.0			50	
Subject objectives	The aim of the module is to familiarize students with the system approach to the description of complex processes and structures and to explain the basic concepts of system theory, including the city as a system.								
Learning outcomes	Course outcome Subject outcome Method of verification					fication			
	[K7_W02] has the knowledge necessary to understand the social, economic, legal and other non-technical conditions of design and planning.Including the principles of creating and developing forms of individual enterprise		Has the knowledge necessary to understand social, economic, legal and other non-technical conditions of design and planning activities and to take them into account in practice related to spatial management.			[SW1] Assessment of factual knowledge			
[K7_K03] responsibly fulfills his/ her professional role as an urban planner and planner in a way that takes into account the changing social, economic, natural and lega conditions; develops his/her scientific and design achievements guided by the principles of professional ethics		responsibly fulfills his/her professional role as an urban planner and planner in a way that takes into account the changing social, economic, natural and legal conditions; develops his/her scientific and design achievements guided by the principles of professional ethics			[SK5] Assessment of ability to solve problems that arise in practice				
Subject contents	 The genesis of the system approach, system versus mechanistic approach. The concept of the system, their types and features; system and object and model. System analysis and its application. Systems engineering: system life cycle, indicator analysis, model creation and types, decision theory regarding the selection of system variants. Spatial management and the city as a system. 								
Prerequisites and co-requisites									
Assessment methods	Subject passing criteria		Passing threshold			Percentage of the final grade			
and criteria	Preparation of a project of a city system in groups 51.0% 100.0%		-						

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Recommended reading	Basic literature	• J.Habr, J.Veperek, Systemowa analiza i synteza, PWE, Warszawa,				
Accommended reading		1976				
		 Cempel C., Teoria i inżynieria systemów, skrypt elektroniczny, neur.am.put.poznan.pl 				
		, spr				
		 Wojnicka-Sycz E. Paradygmat systemowy w innowacyjności - geneza,				
		ewoluja i ocena, rozdział 1 Teoria systemów - fragmenty monografii				
		udostępniane studentom, monografia w recenzji.				
		Boordman J., Systems Engineering - An Introduction. Prentice Hall, New York, 1990.				
		Boyd D. W., System Analysis and Modeling, a Macro to Micro				
		Approach with Multidisciplinary Applications. Academic Press, New				
		York, 2001.				
		Klaassen J. H., Paelinck J. H. P., Wagenaar S., Systemy przestrzenne. PWN, Warszawa, 1982.				
		Parysek J.J., Miasto w ujęciu systemowym. [w:] Ruch prawniczy,				
		ekonomiczny i socjologiczny, Rok LXXVII – zeszyt 1, s. 27-53, 2015.				
		Rappaport A., General Systems Theory. Abacus Press, Cambridge				
		1986.				
	Supplementary literature					
		Austin G., Green Infrastructure for Landscape Planning. Integrating human and natural systems. Routledge, London, 2014.				
		Human and natural systems. Routledge, London, 2014.				
		Covernoy D. Highfield D. Cranica Hetenodei, necestivityania				
		Coveney P., Highfield R., Granice złożoności – poszukiwanie porządku w chaotycznym świecie. Pruszyński i S-ka, Warszawa, 1997.				
		Heller M., Lubański M., Slaga S. W., Zagadnienia filozoficzne				
		współczesnej nauki – wstęp do filozofii przyrody. Akademia Teologii Katolickiej, Warszawa, 1982.				
		raccinosity, wardzawa, 1002.				
		Jacyna M., Wybrane zagadnienia modelowania systemów				
		transportowych. Oficyna Wydawnicza PW, Warszawa, 2009.				
		Malisz B., Zarys teorii kształtowania układów osadniczych. Wyd. 2,				
		Arkady, Warszawa, 1981.				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/						
Example issues/ example questions/	Spatial management / city as a system. System definition of organization					
tasks being completed	3. City bike system design etc.					
Work placement	Not applicable					

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