

Subject card

Subject name and code	Systems theory, PG_00053455								
Field of study	Spatial Development								
Date of commencement of studies	February 2024		Academic year of realisation of subject			2023/	2023/2024		
Education level	second-cycle studies		Subject group			field o	Obligatory subject group in the field of study		
Made of study	Full time studies		Mada af dali .a.m.			Humanistic-social subject group			
Mode of study	Full-time studies		Mode of delivery			Polish	at the university		
Year of study	1		Language of instruction						
Semester of study	anneral anadomic restile		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Urban Design and Regional Pla								
Name and surname	Subject supervisor		prof. dr hab. Elżbieta Wojnicka-Sycz						
of lecturer (lecturers)	Teachers	prof. dr hab. I	Elżbieta Wojnic	ka-Syc	2				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project Sem		Seminar	SUM	
	Number of study hours	15.0	0.0	0.0	0.0		0.0	15	
	E-learning hours inclu	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	Participation i classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study 15 hours			2.0		33.0		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			
	K7_K01		Critically assesses the received content, understands the importance of knowledge in solving cognitive and practical problems, performs risk assessment and is able to assess the effects of performed activities.			[SK1] Assessment of group work skills			
	K7_W02		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_W04		Has in-depth knowledge of issues and technical systems related to the planning, design and implementation of infrastructure projects once with the life cycle of objects and systems.			[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects			
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		<u>, , , , , , , , , , , , , , , , , , , </u>	•						
Assessment methods	Subject passing criteria		Passing threshold			Per	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,				
3		1976				
		Cempel C., Teoria i inżynieria systemów, skrypt elektroniczny,				
		neur.am.put.poznan.pl				
		Wojnicka-Sycz E. Paradygmat systemowy w innowacyjności - geneza,				
		ewoluja i ocena, rozdział 1 Teoria systemów - fragmenty monografii udostępniane studentom, monografia w recenzji.				
		adostępinano otadomom, monograna w 1996 izji.				
		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.				
		TOIR, 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.				
		Truman and natural systems. Roducage, London, 2014.				
		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.				
		Natolickiej, Walszawa, 1902.				
		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/	Spatial management / city as a s	· ·				
example questions/	System definition of organization City bike system design etc.					
tasks being completed Work placement	Not applicable					
work placement	ινοι αμγιισανίο					

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