

Subject card

Subject name and code	Models in spatial development, PG_00053456								
Field of study	Spatial Development								
Date of commencement of studies	February 2023		Academic year of realisation of subject			2023/2024			
Education level	second-cycle studies		Subject group			Obligatory subject group in the field of study			
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			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Urban Design and Regional Planning -> Faculty of Architecture								
Name and surname	Subject supervisor		dr inż. Robert Skrzypczyński						
of lecturer (lecturers)	Teachers	dr inż. Robert Skrzypczyński							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory Project		t	Seminar	SUM	
	Number of study hours	30.0	0.0	0.0			0.0	30	
	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		SUM	
	Number of study hours	30		2.0		18.0		50	
Subject objectives	To acquaint students with various types of models used in spatial management, methods of their creation and application.								
Learning outcomes	Course outcome Subject outcome Method of verification						ification		
	K7_U04		Student chooses a quantitative model, appropriate to the conditions and tasks related to spatial management			[SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools			
	K7_U02		Student indicates the place and method of applying models in the process of urban planning and regional planning.			[SU3] Assessment of ability to use knowledge gained from the subject			
Subject contents	 The concept and types of models and their role. Iconographic and descriptive (ideological, conceptual) models concerning cities historical and contemporary. Models in urban, region and country planning - creation and application. Models of tourism development. Systemic views of cities and other social territorial systems. Population models. Partial and comprehensive quantitative models (mathematical and simulation models of cities): model classifications, Lowry model, models: gravity, flow, Land-Use Transportation Interactions (LUTI), cellular automata, Agent-Based Models, microsimulation models. The paradigm of Zipser spatial decisions, ORION. Models of regional growth. Spatial processes, selected theories of spatial management - model approaches. City control models. Application of models in scenarios. 								
Prerequisites and co-requisites									
Assessment methods and criteria	Subject passin	g criteria	Pass	ing threshold		Per	centage of the	final grade	
	Activity during lecture (quizzes)	es - tests	50.0%			10.0%			
	Colloquium (test)		50.0%			90.0%			

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Recommended reading	Basic literature	 Domański R., Gospodarka przestrzenna. Podstawy teoretyczne (chapter 9), WN PWN, Warszawa 2006. Malisz B., Teoria kształtowania układów osadniczych, Arkady, Warszawa 1981. Mironowicz I., Modele transformacji miast, Oficyna Wyd. Politechniki Wrocławskiej, Wrocław 2016. Prezentacje do wykładów (PDF files). 			
	Supplementary literature	 Majda T., Mironowicz I. (Eds.), Manifesty urbanistyczne, Biblioteka Urbanisty 15, Warszawa 2017. Shi, W., Goodchild, M., Batty, M., Kwan, MP., Zhang, A. (Eds.), Urban Informatics, Springer, 2021 Suchecki B., Ekonometria przestrzenna. Metody i modele analizy danych przestrzennych, Wyd. C.H, Beck, 2010 van Nes, A., Yamu, C., Introduction to Space Syntax in Urban Studies, Springer, 2021. Zipser T, Sławski J. Modele procesów urbanizacji, Studia KPZK PAN t. XCVII, PWE, Warszawa 1988. 			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed	 Types of models from the point of view of: the way of expressing reality / the goals of their construction In which phases of the planning process the models can be used? What can models refer to in designing the spatial structure of the city? What submodels does the LUTI Model contain? What can simulation models be used for? 				
Work placement	Not applicable				

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