

## Subject card

Subject name and code	, PG_00064961							
Field of study	Spatial Development							
Date of commencement of studies	October 2023		Academic year of realisation of subject		2024/2025			
Education level	first-cycle studies		Subject group					
Mode of study	Full-time studies		Mode of delivery		at the university			
Year of study	2		Language of instruction		Polish			
Semester of study	4		ECTS credits		5.0			
Learning profile	general academic profile		Assessme	sessment form		assessment		
Conducting unit	Department of Urban Design and Regional Planning -> Faculty of Architecture							
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. arch. Gabriela Rembarz					
	Teachers		Mariusz Gruchała					
			dr inż. arch. Gabriela Rembarz					
			Ireneusz Sowa					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
	Number of study hours	0.0	15.0	0.0	30.0		0.0	45
	E-learning hours included: 0.0							
	Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=12050							
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	45		0.0		0.0		45
Subject objectives	The aim of the course is to enable the practical interconnection of knowledge in the field of urban design with the key understanding of planning and functionin assumptions of the communal technical infrastructure networks such as: water and sewage - , streets and transportation - electricity and district heat systems.							

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Learning outcomes Course outcome		Subject outcome	Method of verification			
	[K6_U08] performs an urban project with a basic degree of complexity, in accordance with the set specification, applicable rules, legal provisions and taking into account economic factors, and prepares an outline of its implementation strategy; prepares elements of planning documentation, cooperating with industry specialists		[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task			
	[K6_K02] comprehending technical and non-technical aspects and effects of its activity, initiates various activities for the public interest, including coorganizing social projects, workshops and public debates on issues related to spatial management, within which it can reliably present a problem on a non-professional forum and explain the methods and solutions used	understanding of the relationship between urban design layouts and the assumptions for the operation of the communal, student technical infrastructure networks. awareness of the limitations and requirements related to the integration of the basic planning layers: urban design, watersewage networks, street-parking systems and energy-district heat networks	[SK3] Assessment of ability to organize work [SK4] Assessment of communication skills, including language correctness [SK5] Assessment of ability to solve problems that arise in practice [SK1] Assessment of group work skills [SK2] Assessment of progress of work			
	[K6_W01] has knowledge related to theoretical and practical issues in the field of spatial management, the basics of planning and urban design and principles of local, regional and national development, and has basic knowledge about contemporary trends of development and revitalization of settlement structures and the life cycle of facilities and systems related to the functioning of settlement units	the student has basic knowledge of communal technical infrastructure planning problem area and to refer it to the urban design principles in the context of local development, taking into account the current trends in the development and revitalization of settlement structures.	[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects			
Subject contents	The team project task is to elaborate an integrated concept of a housing estate (for the given number of inhabitants) in one of four selected locations as part of the seminar class: a program of the urban design concept is developed (the typology of buildings and spaces is adapted to the given number of inhabitants and the social characteristics of the estate due to the students' preferences)as part of the design part: the principle of the urban composition is determined, adapted to the selected location, for which an initial road-parking and water-sewage concept is developed, taking into account small rainwater retention.					
Prerequisites and co-requisites	knowledge and skills obtained in the course of "urban planning I" and "Urban Planning II" and "Housing Issues"					
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	average note of the 3 design layers	60.0%	55.0%			
	final presentation	60.0%	15.0%			
	average note of the 3 design	60.0%	30.0%			
Recommended reading	Basic literature	Carmona M. Heath T. Oc T., Tiesdell S. Public Places Urban Spaces     Dreiseitl, H., Geiger W.: Nowe sposoby odprowadzania wód deszczowych. Poradnik, Proj-przem-EKO, 1999				
		3. George Rainer Understanding infrastructure: a guide for architects and planners, Wiley-Interscience, 1990				
		4. <u>Jacobs</u> A. B., <u>MacDonald</u> E., <u>Rofe Y.</u> The Boulevard Book: History, Evolution, Design of Multiway Boulevards,				
		5. Moughtin C.: Urban Design: Street and Square				
		6. <u>Shannon</u> K., <u>Smets</u> M. The Landscape of Contemporary Infrastructure, nai010 publishers, 2010				
		7. Song J.: Streets and Squares				

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	Supplementary literature	Burton E., Mitchell L. Inclusive Urban Design: Streets for Life Architectural Press, 2006			
		2. Girling C., Kellett R.: Skinny Streets and Green Neighborhoods:  Design for Environment and Community.			
		3. <u>Jacobs</u> A. B. Great Streets			
		4. Kulash W. M.: Residential Streets,			
		5. Project for Public Spaces, Inc.: Jak przetworzyć miejsce,			
		Speck J.: Walkable City: How Downtown Can Save America, One Step at a Time, North Point Press 2010			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed	REMINAR:defining the typology of residential buildings, flats, the character of the urban landscape of open spaces, in relation to the number of inhabitants and lifestyle of the main groups of inhabitantsDESIGN (Team Work):Urban Design:Determining the functional and spatial program of a residential development complex with a given number of inhabitants in a selected location (4 options):1. conclusions from the analysis of the location conditions and planning documents,2.selection of reference projects: analysis of the urban composition in the context of the surroundings,3.determination of the urban composition of the layout in the selected location (scale 1: 1000)Communication system:1. Analysis of the conditions of the street network and public transport in the vicinity of the design area (district)2. Analysis of the urban layout with an indication of variants of the wheeled access system, taking into account the needs of cyclists, pedestrians (including the disabled), access street, pedestrian and driving route (woonerf, residential street)3. Determining the parking needs and indicating how to implement them in various (parking, underground garage)4. Routing the street layout and parking lots in plan and sections, Water and sewage system:1. Setting the rules for the management of rainwater:1.1. The principle of work with a map for information, design and specialist documentation (hypsometry, geology and hydrogeology of the area)1.2. Indication of potential rainwater drainage points: underground and surface watercourses, rainwater collectors and channels1.3. Determination of the main design parameters: catchment area and divisions, determination of the amount of rainwater to be managed,1.4. Designation of design solutions: routing the stormwater drainage network on the land development plan, network dimensioning (hydraulic calculator)2. Defining the concept of design solutions for the sanitary sewage system and water supply network:2.1. Determination of the main design parameters: direction of sanitary sewage				
Work placement	Not applicable				

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