



Subject card

Subject name and code	Shaping resilient coastal zones, PG_00064977						
Field of study	Spatial Development						
Date of commencement of studies	February 2025		Academic year of realisation of subject		2025/2026		
Education level	second-cycle studies		Subject group		Optional subject group Specialty subject group Subject group related to scientific research in the field of study		
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	1		Language of instruction		English		
Semester of study	2		ECTS credits		5.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Urban Design and Regional Planning -> Faculty of Architecture -> Wydział Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Miłosz Marciniak				
	Teachers		dr Miłosz Marciniak				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	60.0	0.0	60
	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	60		10.0		55.0	125
Subject objectives	The aim of the course is to familiarize the student with the spectrum of analytical methods and design solutions used in the ecological design of the coastal zone used in the regional and city perspective. These methods include the assessment of the climatic sensitivity of the analyzed structures and ways of increasing their resilience through appropriate spatial management solutions.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K7_U05] according to a given specification, taking into account also non-technical aspects, is able to design a complex spatial system of different scales (district, city, region), using appropriate methods, techniques and tools, including the ability to draw up an urban planning concept for the transformation of midtown development with the development of public spaces	Student is able to interpret the system of connections on a regional and local scale - primarily natural and functional relations.	[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information [SU5] Assessment of ability to present the results of task
	[K7_W06] knows and understands the concepts and principles of copyright protection and the need to manage intellectual property resources	Student knows and understands the concepts and principles of copyright protection and the need to manage intellectual property resources - in particular in the field of photographic resources, expert studies, databases and spatial information systems.	[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation
	[K7_W01] has in-depth and expanded knowledge of spatial development, urban planning and spatial planning, including activities used in the process of revitalization of degraded areas and ecological design	Student knows the essence and complexity of the processes related to the ecological design of cities and regions of the coastal zone, with particular emphasis on the effects of climate change	[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation
	[K7_U08] knows how to cooperate in a group, take on different roles in it, including leading the work of a team; has experience in work implemented in different formulas, and in his actions is characterized by creativity and enterprise	Student is able to agree with the group the correct division of tasks, support each other substantively and inspire in finding the best pro-ecological solutions at various scales. By conducting a seminar, he can involve the group in a discussion.	[SU5] Assessment of ability to present the results of task [SU1] Assessment of task fulfilment
Subject contents	<p>Identification and assessment of the ecological problems of the region affecting the cities and other settlement structures of the coastal zone. Identification and assessment of ecological problems of cities and other settlement structures of the coastal zone. General principles of sustainable design of cities and other settlement structures in the coastal zone. Links between pro-ecological activities on a regional scale with the coastal zone. Identification of pro-ecological activities on a regional scale, affecting cities and settlements in the coastal zone. Ecological space and strategies of urban development. Ecological design as an instrument of environmental protection. Assessment of sensitivity and adaptation potentials of various types of spatial structures of the coastal zone.</p>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Presentation of the thematic presentation	100.0%	100.0%

Recommended reading	Basic literature	<p>Riddell R., Sustainable urban planning. Blackwell Publishing, 2007.</p> <p>Beatley T., Planning for sustainability in European cities: A review of practices in leading cities, [w:] The Sustainable Urban Development Reader, red. T. Beatley, S.M. Wheeler, Topical Urban Readers, The Routledge Urban Reader Series, series editor: LeGates R. T., Stout F., Routledge, Taylor & Francis Group, London-New York 2004.</p> <p>Carmona M., Sustainable urban design - a possible agenda, [w:] Planning for a Sustainable Future, red. A. Layard, S. Davoudi, S. Batty, Spon Press, Taylor & Francis Group, London 2001.</p> <p>Jenks M., The acceptability of urban intensification, [w:] Achieving Sustainable Urban Form, red. E. Burton, M. Jenks, K. Williams, E & FN Spon, Taylor & Francis Group, London-New York 2001. Kenworthy J., Newman P., Sustainable urban form: The big picture, [w:] Achieving Sustainable Urban Form, red. E. Burton, M. Jenks, K. Williams, E&FN Spon, Taylor & Francis Group, London-New York 2001.</p>
	Supplementary literature	<p>Williams K., Does intensifying cities make them more sustainable? [w:] Achieving Sustainable Urban Form, red. E. Burton, M. Jenks, K. Williams, E&FN Spon, Taylor & Francis Group, London-New York 2001.</p> <p>Selman P., Environmental Planning: The conservation and development of biophysical resources, 2nd edition, SAGE, London, Thousand Oaks, New Delhi 2000.</p>
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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