

## GDAŃSK UNIVERSITY

## Subject card

Subject name and code	Theory of design - pro	oblems of conte	emporary archi	tecture and urb	anism,	PG_00	060359		
Field of study	Architecture								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2024/2025			
Education level	second-cycle studies		Subject group			Obligatory subject group in the field of study 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			Polish			
Semester of study	2	2		ECTS credits			1.0		
Learning profile	general academic pro	ofile	Assessment form			exam			
Conducting unit	Department of Urbar	Architecture a	nd Waterscape	es -> Faculty of	f Archite	cture			
Name and surname	Subject supervisor		prof. dr hab. ir	nż. arch. Lucyn	a Nyka	ka			
of lecturer (lecturers)	Teachers		prof. dr hab. i	nż. arch. Lucyr	na Nyka				
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	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 includ plan			Self-study S		SUM		
	Number of study hours	15		2.0		8.0		25	
Subject objectives	The aim of the subject	t is to introduce	e students to th	e issues of cor	ntempor	ary arcl	hitecture and	urbanism	
Learning outcomes	Course out	come	Subject outcome			Method of verification			
	[K7_W03] knows and the history and theor architecture as well a technology and hum extent necessary for performance of archi designs; advanced is to architecture and u useful for designing a objects and urban co the social, cultural, n historical, economic, and other non-techni of engineering activit integrating knowledg during studies	y of as art, anities to the the proper tectural ssues related rban planning architectural omplexes in atural, legal context cal conditions ies,	useful for desi objects and un the social, cul historical, eco and other non of engineering	ues related to nd urban plann igning architect rban complexe tural, natural, nomic, legal co- l-technical cono g activities, owledge acquii	ing tural s in ontext ditions	[SW1] Assessment of factual knowledge			
	[K7_W05] knows and issues related to arcl urban planning in the the multi-discipline n architectural and urb well as the need to c other specialists; leg and procedures nece implementation of bu and the integration o with the overall plan	hitecture and e context of ature of an design as ooperate with al provisions sesary for the hilding designs f buildings	related to arch planning in the discipline natu and urban dee need to coope specialists; lee procedures ne implementatic and the integr	and understands issues I to architecture and urban and in the context of the multi- ine nature of architectural ban design as well as the o cooperate with other lists; legal provisions and lures necessary for the nentation of building designs e integration of buildings e overall planning project		of factual			

Subject contents	The course is offered in a form of 15 ARCHITECTURE TALKS focused or as by invited visiting professors from develop understanding of the conten context, as well as responsibilities an	n selected topics. The lectures are g nuniversities abroad. The participan nporary architecture, its cultural, tech	iven by GUT academic staff as well t of the course is expected to nnological and environmental			
Prerequisites and co-requisites	The course has no specific p	rerequisites				
Assessment methods and criteria	Subject passing criteria knowledge	Passing threshold 50.0%	Percentage of the final grade 100.0%			
Recommended reading	Basic literature	<ul> <li>Shannon K., De Meulder B., d'Auria V., Gosseye J. (eds.): Water urbanisms. Amsterdam: SUN 2008,</li> <li>Dreiseitl H., Grau D. (eds.): New Waterscapes. Planning, Building and Designing with Water. Basel-Berlin-Boston: Birkhäuser 2005.</li> <li>Fang Ch.: Waterfront Landscapes. Hong Kong: Design Media Publishing 2011.</li> <li>Januchta-Szostak A. (Ed.): Water in the Townscape. Poznań: Wydawnictwo Politechniki Poznańskiej 2009.</li> <li>Landry Ch.: The Art of City Making. Abingdon: Routledge 2006.</li> <li>Nyka L.: Architecture and Water – New Concepts on Blurring Borders. W: Nyka L. (ed.): Water for urban strategies. Weimar: Verlag der Bauhaus-Universität Weimar 2007, s. 20–27.</li> <li>Pallasmaa J.: Hapticity and Time, notes on fragile architecture, Architectural Review 5/2000. s. 76–80.</li> </ul>				
	<ul> <li>Supplementary literature</li> <li>Urbanowicz K., Nyka L.: Interactive and media architecture – fro social encounters to city planning strategies. Procedia Engineer (2016), pp. 1330-1337. Elsevier Limited, Oxford, UK. DOI information: 10.1016/j.proeng.2016.08.597</li> <li>Cudzik J., Nyka L.: Reasons for Implementing Movement in Kin Architecture. IOP Conference Series: Materials Science and Engineering, Volume 245. (cytuj: IOP Conf. Ser.: Mater. Sci. En 245 042073. 2017 IOP Conference Series: Materials Science and Engineering 245 (4), 042073</li> </ul>					
	eResources addresses	Adresy na platformie eNauczanie:	· · · · · ·			
Example issues/ example questions/ tasks being completed	<ol> <li>Transformations of post-industrial areas and objects – please describe interior and exterior conditions of adaptive re-use explaining urban and architectural issues.</li> <li>Introducing new functions in post-industrial objects – please describe the principles for creating three different functions and give examples.</li> <li>Models of transformations of post-industrial objects – please present the systematics and give examples.</li> <li>What is light pollution of the Earth's atmosphere and what can an architect / urban planner do to make his/her projects not to contribute to the increase of this litter?</li> <li>What is the material reflection factor in per cent and why is it so important in architecture? Give few examples of different materials and their degrees of reflection?</li> <li>List the advantages of algorithmic design.</li> <li>Name and describe three build fabrication.</li> <li>Name three objects designed with the usage of computational design techniques</li> <li>What is kinetic architecture? Name types of movement used in architecture.</li> <li>Name and describe three build and conceptual kinetic objects.</li> <li>What is the difference between build kinematic buildings before and after 1990? Describe the difference in design technique and implemented types of movement.</li> <li>Discuss, basing on two examples, how modifying existing relations between architecture and water may influence process of urban renewal.</li> <li>"Buildings are designed not as static volumes but rather as arrangements of connections" – basing on two examples, environach influences spatial organisation of public buildings.</li> <li>Basing on the example of the chosen city, explain the strategy of introducing public connecting aths that ite logether separate urban areas. Illustrate your answer with skelches.</li> <li>There and escithe the official LEED or BREEM environmental assessment is restricting the freedom of architectures and results with the lower a</li></ol>					

Work placement
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