

Subject card

Subject name and code	Theory of design - problems of contemporary architecture and urbanism, PG_00067372								
Field of study	Architecture								
Date of commencement of studies	October 2025		Academic year of realisation of subject			2025/2026			
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		ECTS credits			1.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Department Of Urban Architecture And Waterscapes -> Faculty Of Architecture -> Wydziały Politechniki Gdańskiej								
Name and surname	Subject supervisor		dr inż. arch. Jan Cudzik						
of lecturer (lecturers)	Teachers		dr inż. arch. Jan Cudzik						
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 include plan				Self-study 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 co	ntempo	rary arcl	nitecture and	urbanism	
Learning outcomes	Course out	Course outcome Subject outcome				Method of verification			
	[K7_W03] knows and the history and theor architecture as well a technology and human extent necessary for performance of architecture and useful for designing a objects and urban country the social, cultural, historical, economic, and other non-technic of engineering activitintegrating knowledgeduring studies	knows and understands advanced issues related to architecture and urban planning useful for designing architectural objects and urban complexes in the social, cultural, natural, historical, economic, legal context and other non-technical conditions of engineering activities, integrating knowledge acquired during studies			[SW1] Assessment of factual knowledge				
	[K7_W05] knows and understands issues related to architecture and urban planning in the context of the multi-discipline nature of architectural and urban design as well as the need to cooperate with other specialists; legal provisions and procedures necessary for the implementation of building designs and the integration of buildings with the overall planning project			knows and understands issues related to architecture and urban planning in the context of the multidiscipline nature of architectural and urban design as well as the need to cooperate with other specialists; legal provisions and procedures necessary for the implementation of building designs and the integration of buildings with the overall planning project			[SW1] Assessment of factual knowledge		

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Subject contents	The course is offered in a form of 15 lectures and has been developed as a series of OPEN ARCH / ARCHITECTURE TALKS focused on selected topics. The lectures are given by GUT academic staff as well as by invited visiting professors from universities abroad. The participant of the course is expected to develop understanding of the contemporary architecture, its cultural, technological and environmental context, as well as responsibilities and challenges staying ahead of architects.							
Prerequisites and co-requisites	The course has no specific prerequisites							
Assessment methods and criteria	Subject passing criteria knowledge	Passing threshold 50.0%	Percentage of the final grade 100.0%					
Recommended reading	Basic literature	 Shannon K., De Meulder B., d'Auria V., Gosseye J. (eds.): Water urbanisms. Amsterdam: SUN 2008, Dreiseitl H., Grau D. (eds.): New Waterscapes. Planning, Building and Designing with Water. Basel-Berlin-Boston: Birkhäuser 2005. Fang Ch.: Waterfront Landscapes. Hong Kong: Design Media Publishing 2011. Januchta-Szostak A. (Ed.): Water in the Townscape. Poznań: Wydawnictwo Politechniki Poznańskiej 2009. Landry Ch.: The Art of City Making. Abingdon: Routledge 2006. 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. Pallasmaa J.: Hapticity and Time, notes on fragile architecture, Architectural Review 5/2000, s. 76–80. 						
	Supplementary literature	 Urbanowicz K., Nyka L.: Interactive and media architecture – from social encounters to city planning strategies. Procedia Engineering (2016), pp. 1330-1337. Elsevier Limited, Oxford, UK. DOI information: 10.1016/j.proeng.2016.08.597 Cudzik J., Nyka L.: Reasons for Implementing Movement in Kinetic Architecture. IOP Conference Series: Materials Science and Engineering, Volume 245. (cytuj: IOP Conf. Ser.: Mater. Sci. Eng. 245 042073. 2017 IOP Conference Series: Materials Science and Engineering 245 (4), 042073 						
	eResources addresses	Adresy na platformie eNauczanie:						
example issues/ example questions/ tasks being completed	1. Transformations of post-industrial areas and objects – please describe interior and exterior conditions of adaptive re-use explaining urban and architectural issues. 2. Introducing new functions in post-industrial objects – please describe the principles for creating three different functions and give examples. 3. Models of transformations of post-industrial objects – please present the systematics and give examples. 4. 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? 5. What characteristics of light affect the perception of the designed space (mention a few and describe their impact)? 6. 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? 8. Name and describe types of digital fabrication. 9. Name three objects designed with the usage of computational design techniques 10. What is kinetic architecture? Name types of movement used in architecture. 11. Name and describe three build and conceptual kinetic objects. 12. What is the difference between build kinematic buildings before and after 1990? Describe the difference in design technique and implemented types of movement. 13. Discuss innovative/creative relations between architecture and water using two examples 14. Discuss, basing on two examples, how modifying existing relations between architecture and water may influence process of urban renewal. 15. Buildings are designed not as static volumes but rather as arrangements of connections" – basing on two examples, explain how this kind of approach influences spatial organisation of public buildings. 16. Basing on the example of the chosen city, explain the strategy of introducing public connecting paths that tie together separate urban areas. Illustrate your answer with sketches. 17. The urge to obtain the official LEED or BREEM environmental assessment is r							

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Work placement	Not applicable

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