

关。GDAŃSK UNIVERSITY 创 OF TECHNOLOGY

Subject card

Subject name and code	Theory of design - pro	oblems of conte	emporary archi	tecture and url	banism,	PG_00	060308		
Field of study	Architecture								
Date of commencement of studies			Academic year of realisation of subject			2023/2024			
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 de	liverv		at the	at the university		
Year of study				Language of instruction			Polish		
Semester of study			ECTS credits			1.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Department of Urban	Architecture a			f Archite	ecture			
Name and surname	Department of Urban Architecture and Waterscapes -> Faculty of Architecture Subject supervisor prof. dr hab. inż. arch. Lucyna Nyka								
of lecturer (lecturers)	Teachers		prof. dr hab. inż. arch. Lucyna Nyka						
			prof. dr hab. inż. arch. Piotr Lorens						
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 inclu								
Learning activity and number of study hours	Learning activity	Participation in classes includ plan		Participation in consultation hours		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	ntempoi	rary arc	chitecture and	urbanism	
Learning outcomes	Course out	Subject outcome			Method of verification				
	extent necessary for the proper performance of architectural designs; advanced issues related to architecture and urban planning useful for designing architectural		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			
	the relationships between man and architecture and between architecture and the surrounding environment, and the need to adapt architecture to human needs and scale; problems of physics, technology and functions of buildings to the extent that ensures comfort of use and protection against the atmospheric factors; methods and means of implementing environmentally responsible sustainable design as well as protection and conservation of the surrounding		knows and understands the relationships between man and architecture and between architecture and the surrounding environment, and the need to adapt architecture to human needs and scale; problems of physics, technology and functions of buildings to the extent that ensures comfort of use and protection against the atmospheric factors; methods and means of implementing environmentally responsible sustainable design as well as protection and conservation of the surrounding environment			[SW1] Assessment of factual knowledge			

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	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	knowledge	50.0%	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: Teoria projektowania - problemy arch. i urb. współczesnej (wykład) 2023/24 - Moodle ID: 18897 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=18897					

Example issues/	
Example issues/ example questions/ tasks being completed	 Transformations of post-industrial areas and objects – please describe interior and exterior conditions of adaptive re-use explaining urban and architectural issues. Introducing new functions in post-industrial objects – please describe the principles for creating three different functions and give examples. Models of transformations of post-industrial objects – please present the systematics and give examples. 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? What is ther anterial reflection factor in per cent and why is it so important in architecture? Give few examples of different materials and their degrees of reflection? List the advantages of algorithmic design. Name and describe types of digital fabrication. Name three objects designed with the usage of computational design techniques What is the difference between build kinematic objects. What is the difference between build kinematic buildings before and after 1990? Describe the difference in design technique and miplemented types of movement. Discuss, hoasing on two examples, how modifying existing relations between architecture and water may influence process of urban renewal. 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 connecting paths that tie together separate urban areas. Illustrate your answer with sketches. The urge to obtain the official LEED or BREEM environmental assessment is restricting the freedom of architects and results with the lower aesthetic qualities of office interiors" – discuss with this opinion giving examples. What does it mean that the building has received the LEED certificate?
	basing on one example
Work placement	Not applicable