

关。GDAŃSK UNIVERSITY 创 OF TECHNOLOGY

Subject card

Subject name and code	Theory of design - pro	blems of conte	emporary archi	tecture and urt	banism,	PG_00	060359		
Field of study	Architecture								
Date of commencement of studies	October 2023		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 university			
Year of study	1		Mode of delivery Language of instruction			Polish			
Semester of study	2		ECTS credits			1.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	-	Assessment form and Waterscapes -> Faculty of Archite							
Name and surname	Subject supervisor					Jotare			
of lecturer (lecturers)	Teachers		prof. dr hab. inż. arch. Lucyna Nyka dr inż. arch. Jan Cudzik						
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			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 included: 0.0								
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	ntempor	ary arc	hitecture and	urbanism	
Learning outcomes	Course out	come	Subj	ect outcome			Method of ve	rification	
	the history and theory of architecture as well as art, technology and humanities to the 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			
	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		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 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.): <i>Water urbanisms</i>. 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	 adaptive re-use explaining urba Introducing new functions in por different functions and give exa Models of transformations of por What is light pollution of the Ear his/her projects not to contribute What characteristics of light affer their impact)? What is the material reflection far examples of different materials List the advantages of algorithm Name and describe types of dig Name three objects designed w What is kinetic architecture? Na Name and describe three build What is the difference between in design technique and implem Discuss innovative/creative rela Discuss, basing on two examples influence process of urban rene "Buildings are designed not as a two examples, explain how this Basing on the example of the cl that tie together separate urban "The urge to obtain the official L 	n and architectural issues. st-industrial objects – please describ mples. st-industrial objects – please presen th's atmosphere and what can an ar e to the increase of this litter? ect the perception of the designed sp actor in per cent and why is it so imp and their degrees of reflection? nic design. jital fabrication. ith the usage of computational desig me types of movement used in arch and conceptual kinetic objects. build kinematic buildings before and tented types of movement. tions between architecture and wate es, how modifying existing relations f wal. static volumes but rather as arranger kind of approach influences spatial of nosen city, explain the strategy of int areas. Illustrate your answer with sk EED or BREEM environmental asses ower aesthetic qualities of office inter ding has received the LEED certifica m "Integrated design"? lary urban intervention/ development re incept of "green urbanism"? Analyse t	t the systematics and give examples. chitect / urban planner do to make ace (mention a few and describe ortant in architecture? Give few In techniques itecture. after 1990? Describe the difference r using two examples between architecture and water may ments of connections" – basing on organisation of public buildings. roducing public connecting paths tetches. essment is restricting the freedom of riors" – discuss with this opinion te? t in Europe that well illustrates the he basic features of such concept				

Work placement	Not applicable