

## 关。GDAŃSK UNIVERSITY 创 OF TECHNOLOGY

## Subject card

Subject name and code	High-quality energy building project, PG_00052643								
Field of study	Architecture								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2022/2023			
Education level	first-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	3		Language of instruction			English			
Semester of study	5		ECTS credits			1.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Technical Fundamentals of Architecture Design -> Faculty of Architecture								
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. arch. Joanna Kabrońska							
	Teachers dr inż. arch. Joanna Kabrońska								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	0.0	0.0	15.0	0.0		0.0	15	
	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		SUM	
	Number of study hours	15		1.0		9.0		25	
Subject objectives	The student learns the pro-environmental, resource-efficient and energy-efficient building design principles.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_U04] is able to use analytical methods to formulate and solve project tasks		The student evaluates the design solutions of a building taking into account the energy quality issues.			[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools			
	[K6_W01] knows and understands construction problems, building and engineering issues related to building design; principles, solutions, constructions and building materials used in simple engineering tasks in the field of architectural and urban design		The student understands the principles of sustainable, energy- efficient design and applies them when determining the energy performance of a building.			[SW3] Assessment of knowledge contained in written work and projects			
Subject contents	Calculation of the energy performance of the building and preparation of the building energy certificate.								
Prerequisites and co-requisites	Knowledge of the basic principles of building physics in the field of thermal and moisture properties of building components.								
Assessment methods and criteria	Subject passin	Passing threshold			Percentage of the final grade				
	Linergy periormance	or a building	100.0 /0			100.07	U		

Recommended reading	Basic literature	Budownictwo zrównoważone. Wybrane zagadnienia z fizyki budowli, A. Kaliszuk-Wietecka, 2017 Nowoczesny standard energetyczny budynków, R. Geryło, 2015				
	Supplementary literature	Architecture and Resilience. Interdisciplinary Dialogues, K. Trogal, I. Bauman, R. Lawrence, D. Petrescu (ed.), 2019				
		Carbon-Neutral Architectural Design, P. La Roche, 2017				
		Regenerative Design in Digital Practice. A Handbook for the Built Environment, E. Naboni, L. Havinga (ed.), 2019				
		Retrofitting Cities for Tomorrows World, M. Eames (ed.), 2018				
		Urban Regeneration. A Manifesto for transforming UK Cities in the Age of Climate Change, S. Lehmann, 2019				
		Climate Change-Sensitive Cities: Building Capacitites for Urban Resilience, Sustainability & Equity, G. C. Delgado Ramos, 2017				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Relationship between a building and its environment.					
Work placement	Not applicable					