



## Subject card

Subject name and code	High-quality energy building project, PG_00055715						
Field of study	Architecture						
Date of commencement of studies	October 2021		Academic year of realisation of subject		2023/2024		
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		Polish		
Semester of study	5		ECTS credits		1.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department Of Technical Fundamentals Of Architectural Design -> Faculty Of Architecture -> Wydział Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. arch. Joanna Kabrońska				
	Teachers		dr inż. arch. Joanna Kabrońska				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	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
	Number of study hours	15		2.0		8.0	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 passing criteria		Passing threshold		Percentage of the final grade		
	Energy performance of a building		100.0%		100.0%		
Recommended reading	Basic literature		Budownictwo zrównoważone. Wybrane zagadnienia z fizyki budowli, A. Kaliszuk-Wietecha, 2017				
			Nowoczesny standard energetyczny budynków, R. Geryło, 2015				

	Supplementary literature	<p>Architecture and Resilience. Interdisciplinary Dialogues, K. Trogal, I. Bauman, R. Lawrence, D. Petrescu (ed.), 2019</p> <p>Carbon-Neutral Architectural Design, P. La Roche, 2017</p> <p>Regenerative Design in Digital Practice. A Handbook for the Built Environment, E. Naboni, L. Havinga (ed.), 2019</p> <p>Retrofitting Cities for Tomorrows World, M. Eames (ed.), 2018</p> <p>Urban Regeneration. A Manifesto for transforming UK Cities in the Age of Climate Change, S. Lehmann, 2019</p> <p>Climate Change-Sensitive Cities: Building Capacities for Urban Resilience, Sustainability &amp; Equity, G. C. Delgado Ramos, 2017</p>
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	Relationship between a building and its environment.	
Work placement	Not applicable	

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