



Subject card

Subject name and code	, PG_00069219						
Field of study	Civil Engineering						
Date of commencement of studies	October 2023		Academic year of realisation of subject		2026/2027		
Education level	first-cycle studies		Subject group				
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	4		Language of instruction		Polish		
Semester of study	7		ECTS credits		5.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Geodesy -> Faculty of Civil and Environmental Engineering -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Dominika Wróblewska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	30.0	0.0	0.0	0.0	45
	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	45		10.0		70.0	125
Subject objectives	To develop students ability to understand architectural form, spatial composition, the relationship between structure and form, and to apply this knowledge in the practical development of a single-family home concept.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_K04] Engages in independent lifelong learning and individually follows the development of science and technology in the field of civil engineering.		Is able to think and act creatively, applying the practical skills necessary to maintain and expand the ability to realize artistic concepts in architectural design.		[SK2] Assessment of progress of work		
	[K6_K03] Can effectively, clearly and unambiguously convey information, describe activities and communicate their results/ outcomes to engineers or a wider audience using appropriate communication methods and tools.		Is able to design an architectural object by creating and transforming space in order to give it new values — in accordance with a specified program that takes into account the requirements and needs of all users. Is capable of communicating effectively using various techniques and tools within the professional environment of architectural design.		[SK2] Assessment of progress of work [SK4] Assessment of communication skills, including language correctness		
Subject contents	Course content – lecture Introduction to the course, basic concepts, form and structure, ergonomics, design guidelines for residential buildings, functionality, trends in residential architecture. Course content – exercises Sketches form and structure, composition, small design forms, shaping the building mass, relationship with the surroundings, proportions. Sketch variants of a house concept. Analysis of orientation, sunlight, wind, topography, and access. Development of a site concept. Discussion of design assumptions: plot, functional program, local conditions. Division into teams. Development of plans, elevations, and sections. Construction of a physical or digital model. Preparation of presentation boards, descriptions, diagrams, and presentation materials. Public presentation of the concept. Discussion and evaluation of individual and group competencies.						
Prerequisites and co-requisites							

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Design book	100.0%	0.0%
	Project	50.0%	70.0%
	Presentation	50.0%	30.0%
Recommended reading	Basic literature	1. Cubero Y., <i>Spectacular Houses</i>. FKG, Loft Project, Barcelona, 2011, ISBN 978-9936-811-5 2. Aymonino A., Mosco V.P., <i>Contemporary Public Space. Unvolumetric Architecture</i>, SKIRA, 2008, ISBN 978-88-7624-273-1 3. Cañizares, A.G., <i>150 najlepszych pomysłów, domy</i>, Firma Księgarska Olesiejuk Sp. z o.o. Copyright 2006 by Collins Design and Loft Publications, Ożarów Mazowiecki, 2010, ISBN 978-83-7626-564-3 4. Cliff S., <i>1000 pomysłów na ogród</i>, MUZA SA 5. Czyński M., <i>Architektura w przestrzeni ludzkich zachowań. Wybrane zagadnienia bezpieczeństwa w środowisku zbudowanym</i>, Prace Naukowe Politechniki Szczecińskiej nr 587, Szczecin, 2006, ISSN 008-7065 6. Etchetto, M.R.E., <i>Minimalist Design</i>, KOLON, Barcelona, 2008, ISBN 978-84-96936-76-8 7. Gołaszewska M., <i>Estetyka współczesności</i>, Wydawnictwo Uniwersytetu Jagiellońskiego, Kraków, ISBN 83-233-1500-0 8. Lamprecht B., <i>Richard Neutra 1892-1970. Survival through Design</i>, Taschen, 2004, ISBN 3-8228-2773-8 9. Markiewicz P., <i>Budownictwo ogólne dla architektów. Seria VADEMECUM PROJEKTANTA</i>, Wydawnictwo Archi-Plus, Kraków, 2009, ISBN 978-83-60884-01-0 10. The Alvar Aalto Museum, <i>Matter and Mind in Architecture.</i>, 2000, ISBN 951-682-607-5 11. Pile J., <i>Historia wnętrz.</i>, ARKADY, 2005, ISBN 978-83-213-4761-5 12. Schleifer S. [red.], <i>Droomappartementen</i>, Librero, 2005, ISBN 90-5764-612-9	
	Supplementary literature	1. Hanna Adamczewska-Wejchert, <i>Kształtowanie zespołów mieszkaniowych</i>, Arkady, Warszawa 1985 + nowe wyd. 2. Jan Gehl , <i>Życie między budynkami. Użytkowanie przestrzeni publicznych</i>, Wydawnictwo RAM, Kraków, 2009 3. Ernst Neufert, <i>Podręcznik projektowania architektoniczno-budowlanego</i>, Arkady, Warszawa, 1980 + nowe wydania 4. Steen Eiler Rasmunssen, <i>Odczuwanie architektury</i>, Wyd. Murator, Warszawa, 1999 5. Periodyki: czasopisma architektoniczne	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Inspiration research		
	Simple forms design		
Practical activites within the subject	Not applicable		

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