



Subject card

Subject name and code	Diploma project, PG_00053059						
Field of study	Architecture						
Date of commencement of studies	October 2020		Academic year of realisation of subject		2023/2024		
Education level	first-cycle studies		Subject group		Optional subject group 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	4		Language of instruction		Polish		
Semester of study	8		ECTS credits		14.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Environmental Design -> Faculty of Architecture						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. arch. Dorota Wojtowicz-Jankowska				
	Teachers		dr hab. inż. arch. Elżbieta Ratajczyk-Piątkowska				
			dr inż. arch. Karolina Życzkowska				
			dr inż. arch. Agnieszka Błażko				
			mgr inż. arch. Stanisław Dopierała				
			Andrzej Gołębiowski				
			dr inż. arch. Małgorzata Skrzypek-Łachińska				
			dr inż. arch. Piotr Marczak				
			dr inż. arch. Tomasz Szymański				
			dr inż. arch. Elżbieta Marczak				
			dr inż. arch. Marek Gawdzik				
			dr hab. inż. arch. Dorota Wojtowicz-Jankowska				
			dr hab. inż. arch. Katarzyna Zielonko-Jung				
			dr hab. inż. arch. Robert Idem				
			dr inż. arch. Agnieszka Kurkowska				
			dr hab. inż. arch. Agnieszka Gębczyńska-Janowicz				
			dr inż. arch. Jarosław Bąkowski				
			dr hab. inż. arch. Rafał Janowicz				
			mgr inż. arch. Jacek Droszcz				
		dr inż. arch. Jacek Poplatek					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	90.0	0.0	90
	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	90		26.0		234.0	350
Subject objectives	The aim of the course is to develop a land development project with elements of a technical project on the basis of a project made during classes on the Undergraduate Project in sem. 6.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K6_W05] knows and understands issues related to architecture and urban planning in the context of the multi-discipline character of architectural and urban design; laws and procedures necessary to implement building designs; estimation of costs principles, project management, cost control methodology and principles of implementing a construction project	knows and understands issues related to architecture and urban planning in the context of the multi-discipline character of architectural and urban design	[SW3] Assessment of knowledge contained in written work and projects
	[K6_K04] is ready for lifelong learning, including second cycle and post-graduate studies or participation in other forms of education	is ready for lifelong learning	[SK3] Assessment of ability to organize work
	[K6_U03] is able to prepare a graphic, written and oral presentation of your own design concepts in the field of architecture and urban planning, meeting the requirements of a professional record appropriate for architectural and urban design	is able to prepare a graphic, written and oral presentation of your own design concepts in the field of architecture and urban planning, meeting the requirements of a professional record appropriate for architectural and urban design	[SU5] Assessment of ability to present the results of task
	[K6_K02] is ready to respect the diversity of views and cultures and to show sensitivity to the social aspects of the profession	is ready to respect the diversity of views and cultures and to show sensitivity to the social aspects of the profession	[SK5] Assessment of ability to solve problems that arise in practice
	[K6_W02] knows and understands the rules of gathering information and their interpretation as a part of project concept preparation; issues related to architecture and urban planning in the field of simple design problems solving	knows and understands the rules of gathering information and their interpretation as a part of project concept preparation	[SW3] Assessment of knowledge contained in written work and projects
	[K6_U01] is able to use the experience gained during studies to critically analyze the conditions and formulate conclusions for design in an interdisciplinary context	is able to use the experience gained during studies to critically analyze the conditions and formulate conclusions for design in an interdisciplinary context	[SU3] Assessment of ability to use knowledge gained from the subject
	[K6_K01] is ready to comply with the principles of professional ethics and take responsibility for his/her actions	is ready to comply with the principles of professional ethics and take responsibility for his/her actions	[SK5] Assessment of ability to solve problems that arise in practice

Subject contents	<p>path A - old - range: PZT (1:500), 2 projections (1:100), 1 characteristic section (1:100), elevation (1:100), minimum 2 details (1:20, 1:10). Path B - new - scope: PZT (1:500), 1 projection (1:100), 1 characteristic section (1:100), 1 elevation (1:100) or its parts and original development of a technical problem related to the prepared project agreed with the promoter (e.g. selected issues regarding solutions: construction, eco-friendly, materials, elements of interior design - 1 board 100x70cm). The diploma project should be presented on 4 - 6 boards with dimensions 100x70 cm arranged horizontally. I. The descriptive part (the so-called "diploma booklet" of A4 format) should contain: 1. Title page (according to editorial guidelines on the website of WA GUT-engineering diploma st. I). 2. Contents. 3. Study of the problem with the description of the concept (Undergraduate project sem. 6). 4. Project description (elements) A. land development including: a) indication of: numbers of plots covered by the investment, registration precinct, registration unit, description of available infrastructure (media), b) tabular indication of the project's compliance with the requirements of the LZP, c) basic parameters, d) an indication of how to ensure: access to the building for the disabled, parking places for vehicles of other building users, places for bicycles, places for collecting solid waste, access for special vehicles (police, ambulance, ambulance, disposal plant vehicles, fire brigade vehicles), e) specifying the municipal networks to which the designed building will be connected, with an indication from which side of the plot such connections will be made, f) specifying whether there will be technical elements related to the proper functioning of the building on the plot (e.g. field intakes or exhausts of mechanical ventilation, a place for collecting solid waste, photovoltaic panels, a ground-source heat pump, a place for collecting rainwater), if so, indicate their location. B. description of the elements of the architectural and construction design (PAB) of the part, including: a) indication and description of the function of the building, specifying the number of employees in the building and the facilities designed for them (types of rooms, their size and location), b) basic parameters (total area, building area, net area, length, width, building volume), c) a description of the accessibility of the building for people with disabilities. C. description of the technical design elements (PT) including: a) a descriptive selection of installations in the building, specifying the method of routing them in the building and ensuring the technical rooms required for service (names of rooms, sizes and locations), b) description of the structural system - indication of the method of foundation of the building, technology of making walls and ceilings, specification of the dimensions of structural elements - size of cross-sections, typical spacing of columns and maximum spans of ceilings, c) description of fire protection issues in the scope of: human hazard category, building fire resistance class and requirements for individual elements (R - fire load capacity, E - fire tightness, I - fire insulation); division of the building into fire zones with a description of their size, required and obtained distances from neighboring buildings, evacuation conditions - indication of the evacuation method and description of the required and maximum obtained lengths of passage and evacuation access; selection of fire installations required for the building. 5. Smaller copies of the boards (drawing part) in A3 format, folded to A4 format with the possibility of attaching them to the paper study + copy of the construction study from the sem. 6 Undergraduate project II. Drawing part, which includes: a) drawings of the architectural concept developed on the Undergraduate Project (1:200) in sem. 6, containing the projections of all storeys (the projections developed in the technical part may be omitted), including the projection of the roof showing the principles of drainage; characteristic cross-sections (the cross-section developed in the technical part can be omitted); facades (you can resign from the facade developed in the technical part); visualizations; diagrams; sketches, etc. The drawings must contain: structural axes, installation shafts, descriptions of rooms, lists of rooms on individual floors (on the boards, not in the descriptive part), b) land development plan (1:500) according to detailed guidelines; indication of the development area, biologically active area, paved areas and other urban parameters of the investment in the drawing; indication of the method of connecting the building to municipal networks, a legend explaining the markings, c) selected floor plan(s) (1:100) according to detailed guidelines for the selected path agreed with the promoter, d) description of the layers of architectural partitions with an indication of the obtained and required parameter of the heat transfer coefficient U, and where necessary - obtaining the appropriate fire resistance class (descriptions on the boards not in the descriptive part), e) characteristic section, e.g. through a staircase (1:100) according to detailed guidelines, f) selected facade of the building, if it is developed - path A "old" (1:100), according to detailed guidelines or a fragment of the same facade in several technological variants - path B "new" (1:100), according to detailed guidelines, g) detailed technical solutions including in the "old" path A - at least two construction details, while in the "new" path B, an original development of a technical problem related to the developed project (e.g. selected issues regarding construction, pro-ecological, material solutions, elements of interior design).</p>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	architectural concept in the field of adaptation to the construction design of installations and technologies, the method of providing the project	20.0%	35.0%
	descriptive part	10.0%	20.0%
	construction project	25.0%	45.0%
Recommended reading	Basic literature	<ul style="list-style-type: none"> Neufert Ernst, Podręcznik projektowania architektonicznego budowlanego Budownictwo drewniane. Podręcznik inżyniera, Polskie Wydawnictwo Techniczne Detale projektowe nowoczesnych technologii budowlanych, Archi Plus Budownictwo ogólne. Podręcznik dla architektów, Archi Plus ROZPORZĄDZENIE MINISTRA INFRASTRUKTURY z dnia 12 kwietnia 2002 r. w sprawie warunków technicznych, jakim powinny odpowiadać budynki i ich usytuowanie 	
	Supplementary literature	Architectural Material & Detail Structure Concrete, Polskie Wydawnictwo Techniczne Architecture: Parking, Gribaudo	

	eResources addresses	Adresy na platformie eNauczenie: Projektowanie dyplomowe - Moodle ID: 18923 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=18923 Projektowanie dyplomowe - Moodle ID: 18923 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=18923
Example issues/ example questions/ tasks being completed	- constructional solutions- material solutions- construction details- architectural details	
Work placement	Not applicable	