



Subject card

Subject name and code	Theory of architectural designe III, PG_00061811						
Field of study	Architecture						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2025/2026		
Education level	first-cycle studies		Subject group		Obligatory subject group in the field of study		
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		Polish		
Semester of study	3		ECTS credits		1.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department Of Housing And Architecture Of Public Buildings -> Faculty Of Architecture -> Wydziały Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		mgr inż. arch. Stanisław Dopierała				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	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 didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	15		1.0		9.0	25
Subject objectives	the aim of the course is to acquire basic knowledge of the residential environment by the student						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[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 theory of architecture useful for formulating and solving simple architectural design tasks; knows and understands the rules of gathering information and their interpretation as a part of project concept preparation.		[SW1] Assessment of factual knowledge		
	[K6_W03] knows and understands history and theory of architecture as well as art, technology and humanities to the extent necessary for the proper performance of architectural designs; issues related to architecture and urban planning useful for the design of architectural objects and urban complexes in the context of social, cultural, natural, historical, economic, legal and other non-technical conditions of engineering activities, integrating knowledge acquired during studies;		knows and understands architectural design in the field of single-family housing development; has knowledge of the basic human needs related to the living space and its immediate surroundings, including ergonomics, psychology of architecture, technical and technological solutions, has knowledge of the relationships between people and buildings, and between buildings and their surroundings, as well as elementary knowledge of the principles of sustainable development and their applications in design		[SW1] Assessment of factual knowledge		

Subject contents	LECTURES: Dwelling and Home. Place and dwelling; Place and context. Genius loci history, structure, interpretation and notion of place; surrounding as natural and socio-cultural context of place; Environment, structure and shell. Designers and users environmental awareness. Building structure heat accumulation, thermal zoning, winter garden; building shell external barriers; Four elements and cyclical nature. Energy daylight and artificial lighting, heat; Matter criteria for selection of building materials, recycling, biologically active areas; water - water and sewage systems, rain water ; air air exchange, emissions, heat recuperation; Environment-friendly technology. Characteristics of ecological Technologies: low-tech, appropriate technology, BAT, high-tech. Selection criteria of ecological technology; Single-family housing units. Detached house, semi-detached, row-housing, atrium housing; site selection and layout, fencing; functional connections between rooms; House zones. Day-time zone, entrance zone, kitchen (equipment, furniture, ergonomics), dining room, family room, atelier (workshop), living; night zone: bedrooms, wardrobes, bathrooms; Installations water and sewage, heating, electric system; House structure. Foundations, cellar, external walls, roofs roof structures, roof covering; Materials: quantity and cost; Interiors. Fittings, materials, colour schemes, finishing materials; Documentation/specification. Architectural project, building project; Presentation of chosen examples of project documentation; Cooperation. Relations between investor, architect and building contractor. Clients supply, demand realisation; Characteristics of a well designed single family house.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	exam	60.0%	100.0%
Recommended reading	Basic literature	Neufert E., Podręcznik projektowania architektoniczno-budowlanego. Arkady, Warszawa, 1995. Pearson D., Przyjazny dom. Wydawnictwo Murator Warszawa, 1998. Wines J., Green Architecture. Taschen, 2000. Redliczka A., Atlas miar człowieka. Dane do projektowania i oceny ergonomicznej. Mass J., Referowska M., Mieszkanie. Arkady, Warszawa, 1965.	
	Supplementary literature	Twarowski M., Słońce w architekturze. Warszawa, Arkady, Warszwa, 1970. Hinz Sigrid, Wnętrza mieszkalne i meble. Arkady, Warszawa, 1980. Wright D., Natural Solar Architecture. The Passive Solar Primer. VNR, 1984.	
	eResources addresses	Adresy na platformie eNauczanie:	
	Example issues/ example questions/ tasks being completed		
Work placement	Not applicable		

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