GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Theory of architectural design III, PG_00052782		
Field of study	Architecture		
Date of commencement of studies	October 2020	Academic year of realisation of subject	2021/2022
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 Residential Architecture -> Faculty of Architecture		
Name and surname of lecturer (lecturers)	Subject supervisor	mgr inż. arch. Stanisław Dopierała	
	Teachers	mgr inż. arch. Stanisław Dopierała	

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

Adresy na platformie eNauczanie:

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 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;	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: exam	Passing threshold: 60.0% / Percentage of the final grade: 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	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	