GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Theory of urbanism IV, PG_00052659		
Field of study	Architecture		
Date of commencement of studies	October 2020	Academic year of realisation of subject	2022/2023
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 English
Semester of study	6	ECTS credits	1.0
Learning profile	general academic profile	Assessment form	exam
Conducting unit	Department of Urban Design and Regional Planning -> Faculty of Architecture		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. arch. Karolina Krośnicka	
	Teachers	dr hab. inż. arch. Karolina Krośnicka	

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

Additional information:
the lecture is led in the classroom

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 familiarize the student with the complexity of the process of functioning and development of cities, including:

- hierarchical spatial (morphology) and functional structure of cities on models (the hierarchy of services and public spaces)

- networks and systems that make up the city (environmental system, technical and social infrastructure)

- role and importance of the district in the structure of the city and the elements that make up the district

- importance of cultural values in the planning and revitalization of the city space.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[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;	when analyzing and planning an urban unit (district, neighbourhood), they are able to combine issues related to various aspects of human life in the city.	[SW1] Assessment of factual knowledge
[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 assess local conditions and formulate preliminary conclusions regarding the correct functioning and construction of a district or selected city infrastructure systems (e.g. transport system, natural environment, public spaces).	[SU3] Assessment of ability to use knowledge gained from the subject

Subject contents

1. The city as a hierarchical system (Central place theory of Walter Christaller, Rank size rule. Zipf law,).
2. The city as hierarchy of travel aims (Maslows Hierarchy of Needs, commuting and concept of isochrones, FUA functional urban area)
3. City is a complex spatial system that reflects hierarchy of human activities in its physical structure (Hierarchy of roads and public spaces in a district).
4. City is a complex spatial system that reflects hierarchy of human activities in its physical structure (Rank of services in cities).
5. The city as a mosaic of functions.
6. Morphological structure of a city as a result of distribution of functions in space.Social network in the city.
7. Travel aims and travel distances in neighbourhood (Clarence Perry Neighbourhood unit).
8. Urban social and technical infrastructure
9. Changes in employment structure (the Clarke-Fisher model) and concentrations of diffrent types of industry in the city
10. The modern mobility and walkability in cities
11. Green and blue infrastructure in cities. Ecological systems in cities. Water retention in cities.
12. Cultural heritage in cities (protected urban complexes and architectual objects)
13. Revitalisation of districts
14. Cities of future.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
final test	50.0%	100.0%

Recommended reading	Basic literature	**The Death and Life of Great American Cities**, by Jane Jacobs (1961). **The City in History: Its Origins, Its Transformations, and Its Prospects**, by Lewis Mumford (1972). **The Image of the City**, by Kevin Lynch (1960). **Good City Form**, by Kevin Lynch (1995). **Cities of Tomorrow: An Intellectual History of Urban Planning and Design in the Twentieth Century**, by Peter Hall (1996 Updated Edition). **A Pattern Language: Towns, Buildings, Construction**, by Christopher Alexander, Sara Ishikawa, and Murray Silverstein (1976). **Cities for People**, by Jan Gehl and Lord Richard Rogers (2013) **The Urban Design Process**, by Philip Black and Taki Sonbli (2019) **The Geography of Transport Systems**, by Jean-Paul Rodrigue (2020), https://transportgeography.org/
	Supplementary literature	**Teoria urbanistyki w projektowaniu i planowaniu miast**, Jan Maciej Chmielewski (2012) **Neufert. Podręcznik projektowania architektoniczno budowlanego**, Ernst Neufert (2022)
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	- why cities function as hierarchical systems? - whar are the models of city growth? - name the elements of environmental system of a city? - give examples of the green and blue infrastructure of a city? - what is technical and social infrastructure? ...	
Work placement	Not applicable	