



KARTA OPISU PRZEDMIOTU - SYLABUS

Nazwa przedmiotu

Foundations of urban design

Przedmiot

Kierunek studiów

Architecture

Studia w zakresie (specjalność)

–

Poziom studiów

first-cycle

Forma studiów

full-time

Rok/semestr

II/3

Profil studiów

general academic

Język oferowanego przedmiotu

Polish/English

Wymagalność

obligatory

Liczba godzin

Wykład

30

Laboratoria

0

Inne (np. online)

Ćwiczenia

0

Projekty/seminaria

0

Liczba punktów ECTS

2

Wykładowcy

Odpowiedzialny za przedmiot/wykładowca:

Doctor Habilitated of Architectural Engineering

Robert Ast

e-mail: robert.ast@put.poznan.pl

Odpowiedzialny za przedmiot/wykładowca:

Doctor of Architectural Engineering Waldemar

Szeszuła

e-mail: waldemar.szeszula@put.poznan.pl

Wydział Architektury

ul. Jacka Rychlewskiego 2, 61-131 Poznań

tel.: 061 665 32 90

Wymagania wstępne

- the student has well-ordered general knowledge, with theoretical foundations, of the key concepts from the field of urban and architectural composition;
- the student has basic knowledge about the courses of study related to the studied course of study;
- the student knows the basic methods, techniques, tools, and materials used for solving simple architectural-urban design tasks;
- the student can identify and formulate the specification of practical composition tasks;



- the student can critically analyze the functioning of and analyze the existing technical solutions – especially in connection with the studied subject, in particular, the devices, objects, systems, and services;
- the student understands the need for lifelong learning, the student can inspire and organize other people's learning process;
- the student can correctly identify and solve dilemmas related to urban and architectural composition.

Cel przedmiotu

1. To practice feeling and drawing an urban interior, to realize the influence of the changes introduced in the space on its reception;
2. to practice distinguishing the leading and stopping forms in a space, to improve suggestive drawing of spaces;
3. to practice using the means of composition to achieve the aim, to practice drawing;
4. to practice shaping the form of urban spaces, independent creation and presentation of solutions for complexes of interrelated interiors;
5. to learn about urban composition and get to know the basic problems of urban planning.

Przedmiotowe efekty uczenia się

Wiedza

- A.W2. doing simple tasks in the area of urban design, in particular: small urban units, local spatial management plans – taking into account the local conditions and connections, and prognosticating the processes of the transformation of the settlement structure of cities, towns, and villages;
- A.W3. records of local spatial management plans in the scope necessary for architectural design;
- A.W4. the principles of universal design, including the design of space and buildings accessible to all users, in particular, to people with disabilities, in architecture, urban planning, and spatial planning, and the principles of ergonomics, including the ergonomic parameters necessary for ensuring the functionality of the designed space and objects for all users, in particular, for people with disabilities.

Umiejętności

- A.U3. creating planning studies concerning spatial development and interpreting them in the scope necessary for designing in the urban and architectural scale;
- A.U4. carrying out a critical analysis of the conditions, including a valorization of the site development;
- A.U5. thinking and acting in a creative way, making use of the skills necessary for maintaining and broadening the ability to apply artistic concepts in architectural and urban design;
- A.U6. integrating information obtained from various sources, interpreting them and analyzing them critically;



A.U7. communicating with the use of various techniques and tools in the professional environment for architectural and urban design;

A.U9. implementing the rules and guidelines of universal design in architecture, urban planning, and spatial planning.

Kompetencje społeczne

A.S1. thinking independently in order to solve simple design problems;

A.S2. taking responsibility for the shaping of the environment and the cultural landscape, including the preservation of the heritage of the region, country, and Europe.

Metody weryfikacji efektów uczenia się i kryteria oceny

Efekty uczenia się przedstawione wyżej weryfikowane są w następujący sposób:

Formative evaluation Reviews of the works done during the semester presentations in the group, a group discussion. The condition for passing the course is obtaining positive grades for all the reviews.

Treści programowe

The lecture cycle is an introduction to the broad field of urban planning. It provides knowledge about the essence of the city and the laws of urban space. It focuses on the architect's responsibilities in the urban planning team: the quality of composition and the proper use of the urban material. It prepares students for consciously perceiving and shaping urban spaces and provides them with the theoretical foundations for designing elementary settlement units. An important aspect of the subject is acquainting students with issues concerning the organization of various forms of urban space and with the basic functions in it, such as: housing, work places, recreation, services. In the lectures, the principles for finding solutions for communication, infrastructure, the natural environment, the social environment, etc. are presented, as well as the basic aspects of spacial policies. Also discussed are the problems of the integration and hierarchization of space, typology of urban units, floor area ratios, and housing density ratios, as tools for obtaining synthetic information about the area encompassed by the project and for enabling an objective evaluation of the existing conditions in relation to social needs. The program provides basic knowledge about the shaping of urban space, including the two-dimensional layout and three-dimensional structure, in the existing context and taking into account the functional and compositional interrelationships in the studied area.

1. The definition of the subject area, urban planning as a discipline.
2. The role of composition in urban design.
3. Perception of the city, theories of vision. A human in the urban space, perceiving space, lines, and surfaces which direct vision, view points.
4. The concept of an urban interior, its components: the floor, the wall, the urban ceiling.
5. Simple interiors, the typology and impact of various types of interiors.
6. The parameters of the compactness of an urban interior, the typology of openings, the central angle.



7. The phenomenon of the coupling of urban interiors, space-time sequences.
8. The functional and spatial structure of the city.
9. The main elements of the spatial structure of the city.
10. The urban material – compositional and functional conditions.
11. Single-family residential development.
12. The principles of shaping single-family development complexes.
13. Multi-family residential development and service development.
14. Green areas as a particular type of urban material.
15. The sociological aspect of urban planning, social space.

Metody dydaktyczne

1. A course lecture with a multimedia presentation.
2. Exercise method based on the use of various sources of knowledge, field query, collecting source materials like maps, photographs.
3. e-Learning Moodle (system for supporting the learning process and for distance learning).

Literatura

Podstawowa

1. Wejchert K., Elementy kompozycji urbanistycznej, Warsaw 1974.
2. Adamczewska-Wejchert H., Domy atrialne-jeden z typów jednorodzinnego budownictwa zespolonego, Warsaw 1978.
3. Adamczewska-Wejchert H., Kształtowanie zespołów zabudowy mieszkaniowej, Warsaw 1985.
4. Chmielewski J. M. Teoria urbanistyki w projektowaniu i planowaniu miast. Warsaw 2001.
5. Czarnecki W., Planowanie miast i osiedli, volume 2 Poznań 1968.
6. Peters P., Rosner R., Małe zespoły mieszkaniowe, Warsaw 1983.
7. Wejchert K. Przestrzeń wokół nas, Katowice 1993.
8. Adamczewska-Wejchert H., Małe miasta, Warsaw 1986.
9. E-skrypt dla przedmiotu "Teoria urbanistyki i Podstawy projektowania urbanistycznego."
10. Szeszuła W. Zabudowa jednorodzinna – wybrane aspekty socjopsychologiczne. Arche i Psyche, edited by Robert Ast, Poznań 2014.



11. Szeszuła W. Przestrzeń społeczna w zespołach zabudowy mieszkaniowej, Zeszyt Naukowy Politechniki Poznańskiej, edited by Ewa Cichy-Pazder, Poznań 2004.
12. Szeszuła W. Przemiany jakościowe we współczesnej zabudowie jednorodzinnej w Wielkopolsce, Zeszyt Naukowy Politechniki Poznańskiej, Poznań 2005.
13. Michał Marmur: Skala śródmiejskiej ulicy. In: ed. Robert Ast, Radosław Berek, Studia Planowania Przestrzennego. Monografia wykładawców podyplomowych Studiów Planowania Przestrzennego SP-109 przy Wydziale Architektury Politechniki Poznańskiej, Poznań: Wydawnictwo Stowarzyszenie Psychologia i Architektura 2019; pp. 221–230
14. Graczyk R., (2014), Identyfikacyjna rola dominanty architektonicznej w strukturze małego miasta, Wyd. Politechniki Poznańskiej, Poznań
15. Kaźmierczak B., Matuszewicz T., Pazder D., Art in city public space – chosen aspects. Case study of Poznan in Poland, Journal of Humanities and Social Sciences, 2017

Uzupełniająca

1. Bańka A., Behawioralne podstawy projektowania architektonicznego, Poznań 1984.
2. Ostrowski W., Urbanistyka współczesna, Warsaw 1980.
3. Tołwiński. T., Urbanistyka, volumes 1, 2, 3, Warsaw 1939. 4. Hall E., Ukryty wymiar, Warsaw 1978.
5. Hall E., Bezgłośny język, Warsaw 1987.
6. Lynch K., L'image de la cite, Paris 1969.
7. Wallis A., Miasto i przestrzeń, Warsaw 1977.
8. Żórawski J., O budowie formy architektonicznej, Warsaw 1973.
9. Korzeniewski W. Budownictwo mieszkaniowe – poradnik projektanta, Warsaw 1989.
10. Bennevolo L., Miasto w dziejach Europy, Warsaw 1995.
11. Múnch H. Geneza rozplanowania miast wielkopolskich w XIII i XIV w., Kraków 1949.
12. Wróblewska G. Rozplanowanie nowożytnych miast w Wielkopolsce od XVI do końca XVIII wieku, Warsaw, Poznań 1977.
13. Fu Tuan Yi, Przestrzeń i miejsce, Warsaw 1987.



Bilans nakładu pracy przeciętnego studenta

	Hours	ECTS
Total labor input	60	2,0
these classes require direct contact with the instructor.	30	1,0
student's own work (study of literature, preparing for laboratory classes / classes, preparing for tests/exams, doing a project) ¹	30	1,0

¹ Delete as appropriate, or add other actions.