



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Greenery Design (Landscape)

Course

Field of study

Architecture

Area of study (specialization)

-

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

III/5

Profile of study

general academic

Course offered in

polish/english

Requirements

elective

Number of hours

Lecture

0

Laboratory classes

0

Other (e.g. online)

Tutorials

0

Projects/seminars

45

Number of credit points

3

Lecturers

Responsible for the course/lecturer:

Phd Eng. Arch. Hanna Michalak, prof. PP

e-mail: hanna.michalak@put.poznan.pl

Faculty of Architecture

ul. Jacka Rychlewskiego 2, 61-131 Poznań

tel. 61 665 32 60

Responsible for the course/lecturer:

Ph.D. Arch. Joanna Kołata

e-mail: joanna.kolata@put.poznan.pl

Faculty of Architecture

ul. Jacka Rychlewskiego 2, 61-131 Poznań

tel. 61 665 32 60

Prerequisites

-student has basic knowledge on development trends in urban planning

-student can acquire information from publications, data bases and other Polish and English sources, can interpret and integrate the said information and draw conclusions as well as voice and justify opinions,

- student is able to make a critical analysis of how the designed area functions and assess existing functional solutions in space,

-student can identify and can draw up specification of practical tasks in the scope of urban planning,



- student understands the need for lifelong learning; can inspire and organize process of learning other people,
- student is aware of the importance of non-technical aspects and effects of engineering activities, in this impact upon the environment and liability for environment affecting decisions,
- student is aware and understands non-technical aspects and effects of engineering activities, including their impact on the environment and the related responsibility for decisions taken
- correctly identifies and resolves dilemmas of different spatial situations in urban planning scale.

Course objective

1. Familiarization with art and getting the skills of space design with the use of greenery, small architectural elements and appropriate lighting.
2. learn to find a balance between technical requirements such as: vegetation requirements in the region, soil type, climate zone, noise, erosion control and aesthetic considerations including color, texture, form and seasonal variability.
3. to get to know the basic instruments and tools of green areas design, standards and norms.
4. acquiring the ability to look at space creatively, preparing a land use plan with the use of innovative solutions in the design of green areas using plant material and elements of small architecture and lighting with full accessibility for different age groups of users and disabled people.

Course-related learning outcomes

Knowledge

- B.W1. theory of architecture and urban planning useful for formulating and solving simple tasks in the field of architectural and urban design as well as spatial planning;
- B.W3. the importance of the natural environment in architectural and urban design and spatial planning;
- B.W7. ways of communicating the idea of architectural, urban and planning projects and their development;
- B.W9. principles of occupational health and safety.

Skills

- B.U1. integrate knowledge from various areas of science, including history, history of architecture, history of art and protection of cultural goods in solving engineering tasks;
- B.U2. recognize the importance of non-technical aspects and effects of an architect's design activity, including its impact on the cultural and natural environment;
- B.U3. use properly selected computer simulations, analyzes and information technologies, supporting architectural and urban design;



B.U6. properly apply standards and legal regulations in the field of architectural and urban design.

Social competences

B.S1. formulating opinions on the achievements of architecture and town planning, their determinants and other aspects of the architect's activity, as well as providing information and opinions;

B.S2. reliable self-assessment, formulating constructive criticism regarding architectural and urban planning activities.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Conditions for course credition and method of project's assessment. An important criterion for evaluation of projects is an approach to the following issues:

1. Linking local conditions to the concept of greenery system in city in accordance with rule of spatial continuity and the idea of ecological fasteners, which takes into account prospective trends of urbanization,
2. Alternative presentation of spatial concepts taking into account the major communication tracks, footpath and analysis of foot traffic and functional allocation of territory,
3. A harmonious connection of social activity with natural environment,
4. Innovative method of spatial composition relating to the use of the form diversity of greenery using forms wealth (habits of trees and shrubs with foliage, no leaves), color, texture, combined with small architecture elements and lighting, ensure the safety, but also greenery is integral part of spatial composition in the night time.

Formative assessment:

Grades obtained during partial reviews in electronic version of the group (2 reviews per semester). Positive grades from reviews are condition for passing the course.

Final grading scale: 3,0; 3,5; 4,0; 4,5; 5,0.

Summative assessment:

The final grade – summative assessment includes:

1. Average of partial grades issued by the teacher (concerns quality of partial studies at the end of each project stage and the degree of student involvement),
2. Effects assessment of final project at the last classes in semester, related with the defense of the group and the exhibition of works as well as students vote for three best projects (mini contest with prizes) and nominations for Wł. Czarnecki competition. The evaluation criteria are announced at the beginning of the semester (if possible, an additional exhibition of the whole team's projects is organized outside WAPP).



Final grading scale: 3,0; 3,5; 4,0; 4,5; 5,0.

Programme content

Topic: design of a green area in the public space of the city of Poznań.

The scope of the project provides:

- On the basis of photographic documentation and sketches in the field, to carry out an analysis of analysis of the site availability, inventory of greenery, recording of landscape interiors, valorization.
- Preliminary concepts of the designed area with designation of functional zones of the housing estate/garden/park space, determination of pedestrian, road, pedestrian and road routes and division of greenery into low, medium and high in the projection and axonometry. Surfaces. Lighting. Small architecture.
- Selection of greenery forms (high, low, columnar, spreading, floating, etc.) Selection of plants in terms of growth rate, color, texture, flowering, fruiting seasons, recording the seasons of selected parts of the area. Selection of plants depending on soil, habitat, climatic conditions, land use. Plant list (Latin, English names).
- Detailed land development plan and visualization/axonometry/work model.
- Development of an original method of greenery recording for the presentation of a design idea, consistent in projections, cross-sections, 3D images
- Development of views of the designed green area, taking into account the seasons and lighting (sunny - daytime, artificial - night). (min., one visualization in the night and daytime of a selected fragment of the green area, in addition to other daytime visualizations and entry into the landscape context - photo existing state and visualization - designed state).

Teaching methods

1. Project realized individually or in a team (student group) requiring joint decisions, division of tasks, team case studies.
2. Tasks are agreed upon on the group forum during the discussion.
3. eLearning Moodle (system of didactic process support and distance learning).

Bibliography

Basic

1. Aas Greror, Riedmiller Andreas; Drzewa. Encyklopedia kieszonkowa, Muza S.A., 1995.
2. Baumann Rudi, Domy w zieleni, Arkady, Warszawa, 1991, 83-231-3496-2.



3. Bonenberg Wojciech, Michalak Hanna (red.), Zieleń w mieście, Zeszyty Naukowe Politechniki Poznańskiej Architektura, Urbanistyka, Architektura Wnętrz, z. 3/2020, Wydawnictwo Politechniki Poznańskiej, Poznań 2020 [https://www.ed.put.poznan.pl/books/isbn_978-83-7775-612-6]
4. Brooks John, The Book of Garden Design, MacMillan Publishing Company, 1991, 978-0025166950
5. Brooks John, Garden Design, Dorling Kindersley Ltd.,2001, 978-0751309812
6. Bugała Władysław, Drzewa i krzewy, Państwowe Wydawnictwa Rolnicze i Leśne, Warszawa, 2000, 83-09-01724-3.
7. Conran T., Person D., The Essential Garden Book: The Comprehensive Source Book of Garden Design, Conran; 1st edition, 1998, 978-1850299196
8. Cyfert M., Michalak H. (red.), Drzewa i krzewy. Pokroje, opis, zastosowanie. Politechnika Poznańska, Wydział Architektury, Instytut Architektury i Planowania Przestrzennego, Zakład Architektury Miejskiej Pracy i Rekreacji, Poznań 2018
9. Niemirski Władysław, Kształtowanie terenów zieleni, Arkady, Warszawa, 1973.
10. Wilson Andrew, The Book of Plans for Small Gardens : More Than 140 Ready-made Schemes to Help You Transform Small Spaces, London 2007, 9781845332068
11. E-skrypt dla przedmiotu „Projektowanie zieleni”.

Additional

1. Haber Zbigniew, Kształtowanie terenów zieleni z elementami ekologii, Akademia Rolnicza, Poznań, 2001, 83-7160-264-2.
2. McHoy, Segall B., Donaldson Stephanie, Urządzamy mały ogród, Murator, Warszawa, 2001, 83-912841-7-4.

Breakdown of average student's workload

	Hours	ECTS
Total workload	90	3,0
Classes requiring direct contact with the teacher	45	1,5
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) ¹	45	1,5

¹ delete or add other activities as appropriate