



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Theory of Greenery Architecture and Fundamentals of Dendrology

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

compulsory

Number of hours

Lecture

15

Laboratory classes

0

Other (e.g. online)

Tutorials

0

Projects/seminars

0

Number of credit points

1

Lecturers

Responsible for the course/lecturer:

Assoc. Prof. D.Sc. Ph.D. Arch. Hanna Michalak

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 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,

-correctly identifies and resolves dilemmas of different spatial situations in urban planning scale.

Course objective

1. Presentation of art and learning the greenery design. It allows to finding the balance between technical requirements such as: vegetative conditions in region, type of soil and climatic zone, noise, erosion control and aesthetic considerations containing color, form and seasonal variation.
2. Learning to understand the ecology of green design.
3. Providing information about plants as design elements.
4. Learning the theory of greenery design in the large and small scale of representative public places.
5. Acquaint students with the history of European and Polish gardens.

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.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:

Semester elaboration (individual topic issued by teacher):

Contents. The elaboration is description of selected topic in the form of multimedia presentation – report, a brief author’s utterance related to discuss the essence of the matter illustrated with pictures, drawings, photos, created on the basis of author’s own reflections and available publications and Internet sources.

Work format. Elaboration in the form of presentation in the Power-Point program. On the CD apart of PowerPoint file with development of topic, recorded separately scanned drawings (tiff or jpg), photos (named and with specified source).

Summative assessment:

Assessment obtained on the basis of merits, aesthetic of graphics record and ability to use source. final grading scale: 3,0; 3,5; 4,0; 4,5; 5,0.

Programme content

Lectures issues:

- Methods of graphic record of greenery in views, sections, on building facades, in conceptual, monochromatic and colour sketches, records cohesion of tool, readability of record.
- Studies of plants identification – Botanic Garden in Poznań. Plants division: deciduous and evergreen, culture and cultivation of grasses, shrubbery, trees, creeper and covering plants. Factors influencing on their growth and use. Forms, color, texture of greenery, growth rate, florescence of trees and shrubbery, colors and habits of flowers, fructification time of trees and shrubbery, colors and habits of fruits.
- Problems and methods of garden designing. Ecological, botanical and social considerations related to greenery designing. Plants as design elements affecting the convenience, comfort and protect and aesthetic quality of land use. Selection of plants meeting the functional and aesthetic standards in specific situations. Introduction to art and greenery design. Balance between technical requirements such as: vegetative conditions in region, type of soil and climatic zone, noise, erosion control and aesthetic considerations containing color, form and seasonal variation.
- Greenery as element of urban planning structure part 1. Standards, the role, basics of greenery planting (designing) in cities planning – in open spaces.
- Greenery as element of urban planning structure part 2. Standards, the role, basics of greenery planting (designing) in cities planning: on the gradient of terraces, in public park, zoos, botanic gardens, groves, recreational parks, squares, avenues, boulevards, embankment (waterside), public and open spaces, cementaries and private and public gardens, on playgrounds, terrains of allotments. Modern gardens, parks. Contemporary designing the areas of greenery, designers and their conceptions.



- Short history of gardens in Italy, France, England and in Poland from Middle Ages to 20th century.

Teaching methods

1. lecture with multimedia presentation.
2. lecture in the scope of dendrology (in the field, depending on possibilities) in the Arboretum of the Institute of Dendrology of the Polish Academy of Sciences in Kórnik or in the Botanical Garden of Adam Mickiewicz University in Poznań.
3. eLearning Moodle (system of didactic process support and distance learning).

Bibliography

Basic

1. 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]
2. Brooks John, The Book of Garden Design, MacMillan Publishing Company, 1991, 978-00251669503.
3. Ciołek Gerard, Ogrody polskie, Budownictwo i Architektura, 1954.
4. Czarnecki Władysław, Planowanie miast i osiedli, t. III, PWN, Warszawa 1961.
5. Czarnecki Władysław, Planowanie miast i osiedli, t. VI, PWN, Warszawa 1964.
6. Czerwieniec Marek, Lewińska Janina; Zieleń w mieście, Instytut Gospodarki Przestrzennej i Komunalnej, Kraków, 2000, 83-86309-11-3.
7. Łukasiewicz Aleksander, Łukasiewicz Szymon, Rola i kształtowanie zieleni miejskiej, Wydawnictwo Naukowe UAM, Poznań, 2009, 978-83-232-2063-3.
8. Majdecki Longin, Historia ogrodów. Przemiany formy i konserwacja; t.1,2; PWN, Warszawa, 2008, 978-83-01-15329-8.
9. Niemirski Władysław, Kształtowanie terenów zieleni, Arkady, Warszawa, 1973.
10. Tołwiński Tadeusz; Urbanistyka, zieleń w urbanistyce, PWN, Warszawa, 1963.
11. E-skrypt dla przedmiotu „Teoria architektury zieleni z elementami dendrologii” (w opracowaniu).

Additional

1. Bogdanowski Janusz, Polskie ogrody ozdobne. Historia i problemy rewaloryzacji, Arkady, Warszawa, 2000, 83-213-3990-5.
2. Brooks John, Garden Design, Dorling Kindersley Ltd., 2001, 978-0751309812



3. Conran T., Person D., The Essential Garden Book: The Comprehensive Source Book of Garden Design, Conran; 1st edition, 1998, 978-1850299196

4. Holmes Caroline (red.), Najpiękniejsze ogrody świata, Grupa Wydawnicza Bertelsmann Media Horizont, Warszawa, 2002,83-7311-536-6.

5. Wilson Andrew, The Book of Plans for Small Gardens : More Than 140 Ready-made Schemes to Help You Transform Small Spaces, London 2007, 9781845332068

Breakdown of average student's workload

	Hours	ECTS
Total workload	50	2,0
Classes requiring direct contact with the teacher	16	1,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) ¹	34	1

¹ delete or add other activities as appropriate