COURSE DESCRIPTION CARD

The name of the course/module		Code
THEORY OF GREENERY ARCHITECTURE AND FUNDAMENTALS OF DENDROLOGY		**A_K_1.5_005**
Main field of study **ARCHITECTURE**	Educational profile (general academic, practical) **general academic**	Year /term **III/5**
Specjalization **-**	Language of course: **Polish**	Course (core, elective) **core**
Hours Lectures: **15** Classes: **-** Laboratory classes: **-** Projects/ seminars:		Number of points **1**

Level of qualification:	**Form of studies** (full-time studies/part-time studies)	**Educational area(s)**	**ECTS distribution (number and %)**
I	**Full-time studies and part-time studies**	**Technical Sciences**	**1 100%**

Course status in the studies' program (basic, directional, other)	(general academic, from a different major)
directional	**-**

Lecturer responsible for the course:

dr inż. arch. Hanna Michalak
e-mail: hanna.michalak@put.poznan.pl
Faculty of Architecture
ul.Nieszawska 13C, 61-021 Poznań
tel.: 061 665 32 60

Lecturer:

dr inż. arch. Hanna Michalak
e-mail: hanna.michalak@put.poznan.pl
Faculty of Architecture
ul.Nieszawska 13C, 61-021 Poznań
tel.: 061 665 32 60

Prerequisites defined in terms of knowledge, skills, social competences:

1	**Knowledge:**	▪ student has basic knowledge on development trends in urban planning,
2	**Skills:**	▪ 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,
3	**Social competences:**	▪ 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.

Objective of the course:
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. General concept of greenery design ecology. Information about plants as design elements. Greenery design in the large and small scale of representative public places. Presentation of history of Polish and European gardens.

Learning outcomes

Knowledge:

W01	Student has basic knowledge on modern trends in urban planning	AU1_W02
W02	Student has basic knowledge in the understanding of social, historical, natural, economic, organizational, legal and other determinants outside the engineering activity and has basic knowledge of quality management	AU1_W03

Skills:

U01	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	AU1_U01
U02	Student has self-education skills	AU1_U02
Social competences:		
K01	Student understands the need of continuous self-education - improvement of professional, personal and social competences	AU1_K03
K02	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.	AU1_K05

The evaluation methods:

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 Power-Point 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.

Positive grade for module depends on achieved by student all learning outcomes specified in the syllabus.

Course contents

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.

Basic bibliography:

1. Baumann Rudi: *Domy w zieleni,* Arkady 1991
2. Bogdanowski J.:*Polskie ogrody ozdobne. Historia i problemy rewaloryzacji,* Arkady, Warszawa, 2000
3. Brooks J.:*Wielka Księga Ogrodów. Sztuka zakładania i pielęgnacji*, Wiedza i Życie, Warszawa 1992
4. Brooks Jon: *Projektowanie ogrodów,* Wyd.Wiedza i Życie, Warszawa 1996
5. Ciołek G.:*Ogrody polskie*, Budownictwo i Architektura, 1954
6. Conran T., Person D *Nowoczesne ogrody.* Arkady. Warszawa 1998.
7. Czarnecki Władysław: *Planowanie miast i osiedli* Tom III, PWN, Warszawa 1961r.
8. Czarnecki Władysław: *Planowanie miast i osiedli* Tom VI, PWN, Warszawa 1964r.
9. Łukasiewicz A, Łukaszewicz Sz. *Rola i kształtowanie zieleni miejskiej,* Wydawnictwo Naukowe UAM, Poznań 2009
10. Majdecki L.*Historia ogrodów. Przemiany formy i konserwacja* Wyd. II, PWN.Warszawa.1981.
11. Orzeszek-Gajewska Barbara: *Kształtowanie terenów zieleni w miastach*, PWN, W-wa 1982r
pod.red.Holmes Caroline: *Najpiękniejsze ogrody świata,* Grupa Wydawnicza Bertelsmann Media Horyzont,

Warszawa 2002
12. Tołwiński Tadeusz: *Urbanistyka, zieleń w urbanistyce*, PWN, Warszawa 1963r.
13. Seneta Włodzimierz: *Dendrologia*, PWN, Warszawa 1976r.
14. Wilson Andrew*: Ogrody, projekty, realizacje,* Arkady, Warszawa 2005

Supplementary bibliography:

1. Landscape Architecture. *The word of environmental design,* Atrium International*,* Francisco Asensio Cerver, 1996
2. Longley: *Niedzielny ogrodnik,* Diogenes, Warszawa 2002, Świat Książki, Bertelsmann Media Sp. Z o.o.
3. Kimon Herta, Becker Jurgen, Nicking Marian: *Ogród źródłem radości, Delta W-Z, Warszawa 1996*
4. *Popularne krzewy i byliny, od A do Z łatwych do uprawy roślin ogrodowych,* Kluszczyński, Kraków 1996
5. Sullivan Chip: *Drawing the landscape,* John Wiley&Sons, Inc., New York, 1997r.

The student workload

Form of activity	Hours	ECTS
Overall expenditure	28,5	1
Classes requiring an individual contact with teacher	22,5	
Practical classes	6	

Balance the workload of the average student

Form of activity	Number of hours
participation in lectures	22,5 h
Preparation of semestral elaboration	6 h

Overall expenditure of student: 1 **ECTS credit** **28,5 h**

As part of this specified student workload:

- activities that require direct participation of teachers:

  22,5 **h** 1 **ECTS credit**