

Name of Course:

LECTURES ON URBAN LANDSCAPE

Course Code: EPM238AN
Semester: 9th
Number of Credits: 5
Allotment of Hours per Week: 1 Lecture/Week (average)
Evaluation: 3 Practical Lessons /Week
Prerequisites: Signature (with grade)

Responsible lecturer:

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General Subject Description

The program of the course focuses on urban and environmental design and planning in a complex approach.

Learning Outcomes

The main focus of the course is **to apply the acquired knowledge during the architectural training in a complex way in a larger settlement scale** (settlement, district, block, open spaces/outdoor spaces) with a special emphasis on the development of a conceptual design approach, integration into the built environment, logical and clean connection of functions, finding aesthetic form and **sustainable, green and carbon neutral development**.

Subject content

This semester the programme of the course focuses on **sustainable, green and carbon-neutral urban and environmental planning**. During the semester, students will be introduced to sustainability, green and carbon-neutral urban development, and interventions in general and will reflect on **a defined urban fabric to formulate ideas on the development directions of the area, and then prepare concrete interventions through environmental design in group and individual work (max 2 students/group)**.

The exercise will be carried out in accordance with the course "COMPLEX DESIGN 3" (EPM320AN, with the same planning area delimitation), covering the scales of action area development plan, building plan and environmental design.

The topic of the semester is based on the following concepts:

"Sustainable city"

"Sustainability is a complex concept, which basically means the ability and readiness to operate effectively in the longer term, beyond the maintenance of the level. Due to the complexity of the city, we talk about ecological, social, economic-financial, technological sustainability in the context of urban development, which requires different, yet mutually considering each other, tools and developments."

Source: Methodological Manual for Sustainable Urban Development Strategy 2021-27 (note: translation of a relevant Hungarian document)

"Green City"

"The European Green Capital Award (EGCA) rewards cities that focus on long-term, innovative environmental solutions. Each year, the city that best protects its environment and takes care to create a healthy living environment for its inhabitants is recognised."

Source: https://zoldfovaros.pecs.hu/?page_id=59&lang=en

"Carbon Neutral City"

"Carbon neutrality is a balance between the amount of emitted carbon dioxide and the amount of carbon dioxide removed from the atmosphere and stored in carbon sinks" A carbon neutral city meets carbon neutrality requirements throughout its administrative territory in terms of its operation and development.

Source: <https://www.europarl.europa.eu/news/en/headlines/society/20190926STO62270/what-is-carbon-neutrality-and-how-can-it-be-achieved-by-2050>

The assignments and requirements are published according to the theme, which are uploaded to the **Neptun Meet Street/ Microsoft Teams** surface of the subject together with the materials and lectures. Information related to the subject will also be available on this interfaces.

Examination and evaluation system

*In all cases. Annex 5 of the Statutes of the University of Pécs, the **Code of Studies and Examinations (CSE)** of the University of Pécs shall prevail. <https://english.mik.pte.hu/codes-and-regulations>*

Attending is required all classes, and will impact the grade (max. 10%). Unexcused absences will adversely affect the grade, and in case of absence from more than 15% of the total number of lesson (it is max. 2 lessons) will be grounds for failing the class. To be in class at the beginning time and stay until the scheduled end of the lesson is required, tardiness of more than 20 minutes will be counted as an absence. In the case of an illness or family emergency, the student must present a valid excuse, such as a doctor's note.

Verified attendance at the practical sessions is based on the presentation of the actual work. The mid-semester work required to obtain a mid-semester grade is completed at the end of the semester and is assessed on the basis of the following scores:

"1. RESEARCH PART" - 30 POINTS (GROUP WORK)

"2. ADAPTATION PART: CONCEPTUAL DESIGN" - 30 POINTS (GROUP WORK)

"3. DESIGN PART": PREPARATION OF THE ENVIRONMENTAL DESIGN' - 40 POINTS (INDIVIDUAL WORK BASED ON THE GROUP CONCEPT)

Max. points to be earned 100 p

The final grade will be based on the following guidelines:

(Grade 5) Outstanding work. Execution of work is thoroughly complete and demonstrates a superior level of achievement overall with a clear attention to detail in the production of drawings, models and other forms of representation. The student is able to synthesize the course material with new concepts and ideas in a thoughtful manner, and is able to communicate and articulate those ideas in an exemplary fashion in.

(Grade 4) High quality work. Student work demonstrates a high level of craft, consistency, and thoroughness throughout drawing and modelling work. The student demonstrates a level of thoughtfulness in addressing concepts and ideas, and participates in group discussions. Work may demonstrate excellence but less consistently than an '5' student.

(Grade 3) Satisfactory work. Student work addresses all of the project and assignment objectives with few minor or major problems. Graphics and models are complete and satisfactory, exhibiting minor problems in craft and detail.

(Grade 2) Less than satisfactory work. Graphic and modelling work is substandard, incomplete in significant ways, and lacks craft and attention to detail.

(Grade 1) Unsatisfactory work. Work exhibits several major and minor problems with basic conceptual premise, lacking both intention and resolution. Physical representation in drawing and models is severely lacking, and is weak in clarity, craft and completeness.

Grading Scale:

Numeric Grade:	5	4	3	2	1
	A, excellent	B, good	C, average	D, satisfactory	F, Fail
Evaluation in points:	85%-100%	71%-84%	60%-70%	50%-59%	0-49%

Readings and Reference Materials

Required:

1. Lectures by the Instructor, which can be found on NEPTUN MEET STREET/MICROSOFT TEAMS
2. Shared articles, papers, book or book chapters

Proposed readings:

1. J. C. Moughtin. (2003). Urban design: Street and Square
2. Erdi-Lelandais, G. (2014). Understanding the City: Henri Lefebvre and Urban Studies
3. Lynch, K. (1990). Image of the City. The MIT Press
4. Jacobs, J. (1992). The death and life of great american cities. New York: Vintage Books.
5. Trancik, R. (1986). Finding Lost Space: Theories of Urban Design
6. Venturi, R. (1977). Learning from Las Vegas. The MIT Press
7. Gehl, J. (1987). Life between Buildings: Using Public Space
8. Gehl, J. (2010). Cities for People, Island Pres
9. Speck J. (2012). Walkable City, North Point Press
10. Montgomery, C. (2013). Happy city, Farrar, Straus and Giroux

Other study/task materials can be found on **NEPTUN MEET STREET/MICROSOFT TEAMS**

Methodology

The course is based on through collaboration, participation and discussions through lessons. This is an interaction between Students and Faculty; used the teaching methods like 'Problem-based learning' and 'learning-by-doing'. The communication and work should reflect a respect for fellow students and their desire to work with regard to noise levels, noxious fumes, etc – from each side of participants. (You will need: sketch paperroll, Rulerscale, sketchbook, pencils, pens, rulers, carton paper for modelling, notebook, internet.)

Students with Special Needs

Students with a disability and needs to request special accommodations, please, notify the Deans Office. Proper documentation of disability will be required. All attempts to provide an equal learning environment for all will be made.

Detailed requirements and schedule of the Course

Methodology and criteria:

Students will formulate visions, development concepts and environmental design plans on a settlement/masterplan/block development scale in a pre-defined theme: „sustainable, green or carbon neutral city”. During the work, students will attend lectures where they will acquire the theoretical knowledge which is necessary to carry out the work and will be given samples for development and planning work by carrying out research (max. 2 persons). The groups will then study a delimited area and make development proposals and present the detailed plans of the concept through environmental design.

Each phase will be discussed at group level during the lesson:

- joint discussion - presentation and discussion of the work done at home, raising any problems that have not yet been identified, analysis of possible responses to the problems identified
- independent reflection on the task
- joint discussion - presenting and discussing the work done in class, raising any problems that have not yet been identified, analysing possible answers to the problems identified.

Tasks and their requirements:

"1. RESEARCH PART" - 30 POINTS

SUBMISSION: WEEK 07 + IMPROVEMENT LATER
GROUP WORK

Research project focuses on a settlement/urban area from the view of its sustainability, green and carbon neutrality (one group = "one settlement").

What makes a municipality sustainable, green or carbon neutral? What kind of urban development concepts and strategies have been developed by municipalities in relation to sustainable, green and carbon neutral in operation and development?

The student research project (group work) will seek answers to the above questions in relation to one specific settlement, if possible, but the exercise can also be carried out in relation to research on three different settlements. The aim of the exercise is to identify and summarize the concepts and strategies used (as mentioned above) and then to adapt ideas to the design location in the next step.

Content requirement:

min. 3x 8000 characters + min. 3x3 figures (with list of figures and references)

Formal requirement:

To be prepared and submitted as a digital study (pdf) in A3 size, landscape format.

Note: It is proposed to use the following criteria system for 'Green City' (European Green Cities) topic:

- 1.climate change: mitigation and adaptation,
- 2.local transport,
- 3.sustainable land use of urban green spaces,
- 4.nature and biodiversity,
5. air quality,
- 6.acoustic environment quality,
- 7.waste generation and management,
- 8.water management,
- 9.wastewater management,
- 10.environmental innovation and sustainable employment,
- 11.energy performance,
- 12.integrated environmental management.

Suggested websites on this topic:

https://ec.europa.eu/environment/europeangreencapital/index_en.htm

"2. ADAPTATION PART 2: PREPARATION OF A CONCEPT PLAN" - 30 POINTS

SUBMISSION: WEEK 07 + IMPROVEMENT LATER

GROUP WORK

Preparation of a sustainability, green or carbon neutral concept for the design area in a group work.

What development principles could be used to make the defined design area (by "COMPLEX DESIGN 3") a sustainable, green and carbon neutral area?

Preparation of a student (group work) proposal for a complex, forward-looking, environmentally sensitive development of a demarcated area.

Task parts to be prepared:

Text, diagrams:

- Presentation of the chosen environment (with photographs, sketches, etc.), exploring the history and traditions of the area.
- exploration of the strengths and problems of the existing situation, assessment of the value of the natural and built environment, approach, access, outlook, analysis of the morphology and vegetation of the area, etc.
- Formulation of an overall concept for the local conditions (min. 8000 characters)

Plan sheets:

- Schematic diagrams, infographics (municipality/part of a municipality)
- Environmental analysis (municipality/part of a municipality) m1:2000-4000
- Development concept presentation m1: 2000

Formal requirement:

To be prepared and submitted as a digital study (pdf) in A3 size, landscape format.

"3. DESIGN PART: PREPARATION OF THE ENVIRONMENTAL DESIGN" - 40 POINTS

WEEK 15

SUBMISSION: INDIVIDUAL WORK BASED ON A COMMON GROUP CONCEPT

Preparation of a sustainability, green or carbon neutral plan for the design area in individual work.

What are the development principles that will make the defined design area (by "COMPLEX DESIGN 3") a sustainable, green and carbon neutral area?

Preparation of a student plan for the complex, forward-looking, environmentally-sensitive development of a demarcated area. The assignment will present all the solutions used and a sample area per student in relation to the external spaces.

Task parts to be prepared:

Text, diagrams:

- Presentation of the chosen environment (with photographs, sketches, etc.), exploring the history and traditions of the area. - **material improved or extended from the previous submission**
- exploration of the strengths and problems of the existing situation, assessment of the value - of the natural and built environment, approach, access, outlook, analysis of the morphology and vegetation of the area, etc. - **material improved or extended from the previous submission**
- Formulation of an overall concept for the local conditions (min. 8000 characters) -- **material improved or extended from the previous submission**

Plan sheets:

- d) Schematic diagrams, infographics (municipality/part of a municipality-- **material improved or extended from the previous submission**)
- e) Environmental analysis (municipality/part of a municipality) m1:2000-4000 - - **material improved or extended from the previous submission**
- f) Development concept presentation m1: 2000 - - **material improved or extended from the previous submission**
- g) Detailed environmental design (to be prepared separately per student)
 - _ Site plan m1:500
 - _ Section (min. 2db) m1:50-200
 - _ Detail drawings (top view and section detail) m1:20-50
 - _ Visualization (min. 3db)
 - _ Verification of compliance with sustainability, green and carbon neutral principles (illustrated by 'exploded' diagrams)

Content elements:

- _ Landscape architecture design (design of traffic flow, green areas)
- _ Construction of traffic and parking surfaces (including road junctions, traffic junctions with indication of the traffic technology proposal, marking of pavements, curbs, driveways and accessible slopes, paintings, surfaces of motor vehicles, pedestrians, bicycles and parking, pavement plans, the types and materials of paving, the method of paving patterns, the location and design of driveways, surfaces, moving and fixed baffles, bollards, poles, as well as means of bicycle storage and the construction of public transport stops)
- _ Placement of public objects (including street furniture, drinking fountains and fountains)
- _ Equipment placement (including advertising media)
- _ Design of public lighting and decorative lighting
- _ Location of pavilions, pavilion-like structures, booths (if relevant)
- _ Design of catering terraces (if relevant)

Formal requirement:

To be prepared and submitted as a digital study (pdf) in A3 size, landscape format.

Instructor group classification:

EPM238AN Lectures on urban landscape: dr. GYERGYAK Janos
ZHAO Tianyu
MAITEH Shaha Mazen Yehya

Program by week:

Week 01	Friday 15:00 – 17:15	Friday 17:30 – 18:15
	Studio	Lecture
Methodology	Presentation	Theoretical presentation
Assignment	Introduction of the course (syllabus and schedule)	Introduction of the course (syllabus and schedule)
Week 02	Friday 15:00 – 17:15	Friday 17:30 – 18:15
	Studio	Lecture
Methodology	Individual/group work	Theoretical presentation
Assignment	Study trip	Study trip
Week 03	Friday 15:00 – 17:15	Friday 17:30 – 18:15
	Studio	Lecture
Methodology	Individual/group work	Theoretical presentation
Assignment	Consultation of the „1. Research part”	Lecture 01. – Sustainable, green and carbon neutral urban development in general
Week 04	Friday 15:00 – 17:15	Friday 17:30 – 18:15
	Studio	Lecture
Methodology	Individual/group work	Theoretical presentation
Assignment	Consultation of the „1. Research part”	Individual research work
Week 05	Friday 15:00 – 17:15	Friday 17:30 – 18:15
	Studio	Lecture
Methodology	Individual/group work	Theoretical presentation
Assignment	Consultation of the „1. Research part” and „2. Adaption part: Preparation of the concept plan”	Lecture 02. – Sustainable, green and carbon neutral urban development – urban scale Note: _The presentations will be available on „Neptun meet street”.
Week 06	Friday 15:00 – 17:15	Friday 17:30 – 18:15
	Studio	Lecture
Methodology	Individual/group work	Theoretical presentation
Assignment	Consultation of the „1. Research part” and „2. Adaption part: Preparation of the concept plan”	Individual research work
Week 07	Friday 15:00 – 17:15	Friday 17:30 – 18:15
	Studio	Lecture
Methodology	Individual/group work	Theoretical presentation
Assignment	Submission of the „1. Research part” and „2. Adaption part: Preparation of the concept plan” Note: Submission – Finalized masterplan and the introduction of the apartment block design - from “Complex Design 3”	No theoretical class

Week 08	Friday 15:00 – 17:15	Friday 17:30 – 18:15
	Studio	Lecture
Methodology	Individual/group work	Theoretical presentation
Assignment	Fall holiday	Fall holiday

Week 09	Friday 15:00 – 17:15	Friday 17:30 – 18:15
	Studio	Lecture
Methodology	Individual/group work	Theoretical presentation
Assignment	Consultation of the „1. Research part” (Improvement) and „2. Adaption part: Preparation of the concept plan” (Improvement) „3. Design part: Preparation of the environmental design”	Lecture 03. – Sustainable, green and carbon neutral urban development – public space scale

Week 10	Friday 15:00 – 17:15	Friday 17:30 – 18:15
	Studio	Lecture
Methodology	Individual/group work	Theoretical presentation
Assignment	Consultation of the „1. Research part” (Improvement) and „2. Adaption part: Preparation of the concept plan” (Improvement) „3. Design part: Preparation of the environmental design”	Individual research work

Week 11	Friday 15:00 – 17:15	Friday 17:30 – 18:15
	Studio	Lecture
Methodology	Individual/group work	Theoretical presentation
Assignment	Consultation of the „1. Research part” (Improvement) and „2. Adaption part: Preparation of the concept plan” (Improvement) „3. Design part: Preparation of the environmental design”	Lecture 04. – Sustainable, green and carbon neutral urban development – building design scale

Week 12	Friday 15:00 – 17:15	Friday 17:30 – 18:15
	Studio	Lecture
Methodology	Individual/group work	Theoretical presentation
Assignment	Consultation of the „1. Research part” (Improvement) and „2. Adaption part: Preparation of the concept plan” (Improvement) „3. Design part: Preparation of the environmental design”	Individual research work

Week 13	Friday 15:00 – 17:15	Friday 17:30 – 18:15
	Studio	Lecture
Methodology	Individual/group work	Theoretical presentation
Assignment	Consultation of the „3. Design part: Preparation of the environmental design”	Lecture 05. – Sustainable, green and carbon neutral urban development – examples

Week 14	Friday 15:00 – 17:15	Friday 17:30 – 18:15
	Studio	Lecture
Methodology	Individual/group work	Theroretical presentation
Assignment	Consultation of the “3. Design part: Preparation of the environmental design”	Individual research work

Week 15	Friday 15:00 – 17:15	Friday 17:30 – 18:15
	Studio	Lecture
Methodology	Individual/group work	Theroretical presentation
Assignment	First opportunity for submission of the „1. Research part” (improvement), „2. Adaption part: Preparation of the concept plan” (Improvement) and “3. Design part: Preparation of the environmental design” Note: Submission – Final review from “Complex Design 3”	Individual research work

Week 16	Friday 15:00 – 17:15	Friday 17:30 – 18:15
	Studio	Lecture
Methodology	Individual/group work	Theroretical presentation
Assignment	Last opportunity for submission of the „1. Research part” (improvement), „2. Adaption part: Preparation of the concept plan” (Improvement) and “3. Design part: Preparation of the environmental design” Note: Submission – Final presentation from “Complex Design 3”	

We reserve the right to make changes to the details of this course syllabus (date / location / clarifications), which will be communicated to the students. In case of questions and problems that arise during the semester contact the responsible lecturer or the study program coordinator.

János GYERGYÁK dr.
responsible lecturer

Pécs, 10.09.2021