# General Information:

Name of Course:

lectures on

experimental design

experimental design studio

Course Code: EPE027ANEM

EPE028ANEM

Semester: 8

Number of Credits: 3

5

Allotment of Hours per Week: 1 Lecture/Week (average)

4 Practical Lessons /Week

Evaluation: Exam

Signature (with grade)

Prerequisites:

Responsible lecturer: János GYERGYÁK dr., associate professor

Office: 7624 Pécs, Boszorkány u. 2. B-332

E-mail: gyergyak.janos@mik.pte.hu

Office telephone: +36 72 503650/23840

Instructors: János GYERGYÁK dr., associate professor

Office: 7624 Pécs, Boszorkány u. 2. B-332

E-mail: gyergyak.janos@mik.pte.hu

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**David OJO, assistant teacher**

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Nicolas Ramos GONZALEZ, doctorate student

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## General Subject Description

The program of the course focuses on the analysis and design of public and private spaces in urban environments, using **experimental design approaches that are still new directions in everyday practice** (eg in the context of “sustainability”, “happiness” or “safety” of built environment). The course explores the psychology of the human environment with a different focus from semester to semester.

## Learning Outcomes

Transfer of knowledge from an innovative approach through a theoretical and practical program.

## Subject content

**ENVIRONMENTAL DESIGN** + **“SAFE ENVIRONMENT”**

The semester covers the topics of “**environmental design**” (open spaces) and “**safe environment” / “crime prevention through environmental design (CPTED)”.** In connection with the topic, students will gain an insight into the guidelines developed by the Lechner Knowledge Center and the National Crime Prevention Council in Hungary, as well as the international theory and practice of the topic.

Lecture:

**“Experimental Design” - EPM227AN**

During the lectures, students will be introduced to the theoretical material of “**environmental design**” (design of open spaces) and “**safe environment” / “crime prevention through environmental design (CPTED)**”. The aim is not only to acquire basic knowledge, but also to develop correct and modern thinking and behavior with the help of contemporary examples.

Practice:

**“Experimental Design Studio” - EPM228AN**

Students will participate in the practical application of “environmental design” (design of open spaces) and “safe environment” / “crime prevention through environmental design (CPTED)” = “Safecity. City” project (further information is available at www.safecity.hu).

In parallel with the acquisition of the relevant theoretical knowledge, the students work on safe environment in practical situations, by solving real example tasks

Laboratory Practice:

Nor relevant!

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 interface.

**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://international.pte.hu/sites/international.pte.hu/files/doc/TVSZ%202022\_06\_23\_ENG.pdf*](https://international.pte.hu/sites/international.pte.hu/files/doc/TVSZ%202022_06_23_ENG.pdf)

**Attendance**

In accordance with the Code of Studies and Examinations of the University of Pécs, Article 45 (2) and Annex 9. (Article 3) a student may be refused a grade or qualification in the given full-time course if the number of class absences exceeds 30% of the contact hours stipulated in the course description.

Method for monitoring attendance: attendance sheet.

**Mid-term assessments, performance evaluation and their ratio in the final grade.**

**“Experimental Design” - EPM227AN**

|  |  |  |
| --- | --- | --- |
| **Type** | **Assessment** | **Ratio in the final grade** |
| ***Theoretical examination – Test/Exam*** | *Max 50 points* | *50 %* |
| ***Study assignments (4 pieces)*** | *Max 4 x 10 points* | *40 %* |
| ***10% of the evaluation of the***  ***“Experimental Design Studio”*** | *Max 10 points* | *10 %* |
| *Total* | *Max 100 points* | *100%* |

**“Experimental Design studio” - EPM228AN**

|  |  |  |
| --- | --- | --- |
| **Type** | **Assessment** | **Ratio in the final grade** |
| ***„Investigation plan”*** | *Max 30 points* | *30 %* |
| ***“Environmental concept design plan”*** | *Max 20 points* | *20 %* |
| ***“Environmental final design plan”*** | *Max 50 points* | *50 %* |
| *Total* | *Max 100 points* | *100%* |

**Opportunity and procedure for re-takes (PTE TVSz 47§(4))**

The specific regulations for improving grades and resitting tests must be read and applied according to the general Code of Studies and Examinations. E.g.: all tests and assessment tasks can be repeated/improved at least once every semester, and the tests and home assignments can be repeated/improved at least once in the first two weeks of the examination period.

**Requirements for the end-of-semester signature**

***Re-takes for the end-of-semester signature*** *(PTE TVSz 50§(2))*

*The specific regulations for grade betterment and re-take must be read and applied according to the general Code of Studies and Examinations. E.g.: all the tests and the records to be submitted can be repeated/improved each at least once every semester, and the tests and home assignments can be repeated/improved at least once in the first two weeks of the examination period.*

**Grade calculation as a percentage**

based on the aggregate performance according to the following table.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Grade: | 5 | 4 | 3 | 2 | 1 |
|  | A, outstanding work | B, high quality work | C, satisfactory work | D, less than satisfactory work | F, unsatisfactory work |
| Performance in % | 85%-100% | 70%-84% | 55%-69% | 40%-55% | 0-39% |

The **“Experimental Design”** course ends with the submission of the studies and take the **exam,** meanwhile “**Experimental Design Studio**” with submissions of the plans. The semester closes on the 15th week. The proven presence in the practical sessions is done by presenting the current part of the work recorded in the topic! The practice leaders, the instructors keep a attendance sheet / consultation sheet with published and unpublished / unrecorded entries. At the end of the semester, the student reports on his / her work once in a visual presentation to the professional jury of the subject instructors.

Important notice from **“Experimental Design”:**

a) The course is fullfiled only when all of the grading elements are achieved by at least 40% performance.

b) All projects can be submitted with one week delay for receiving maximum points.

c) Submission over one week delay take 20% deduction in points per every started week.

Important notice from „**Experimental Design Studio”**:

a) The course is fullfiled only when all of the grading elements are achieved by at least 40% performance.

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## 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:

# [3.] [Newman](https://www.google.hu/search?hl=hu&tbo=p&tbm=bks&q=inauthor:%22Oscar+Newman%22),O.: Defensible Space; Crime Prevention Through Urban Design, Macmillan, 1972

[4.] Alexander, C.: Pattern Language, New York, Oxford University Press, 1977

[5.] Byrne, J.: Designing Safer Cities: CPTED,2004

[6.] J. C. Moughtin. (2003). Urban design: Street and Square

[7.] Erdi-Lelandais, G. (2014). Understanding the City: Henri Lefebvre and Urban Studies

[8.] Lynch, K. (1990). Image of the City. The MIT Press

[9.] Jacobs, J. (1992). The death and life of great american cities. New York: Vintage Books.

[10.] Trancik, R. (1986). Finding Lost Space: Theories of Urban Design

[11.] Venturi, R. (1977). Learning from Las Vegas. The MIT Press

[12.] Gehl, J. (1987). Life between Buildings: Using Public Space

[13.] Gehl, J. (2010). Cities for People, Island Pres

[14.] Speck J. (2012). Walkable City, North Point Press

[15.] 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 trough 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 be reflect a respect for fellow students and their desire to work with regard to noise levels, noxious fumes, etc – from each site 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

**Tasks and minimum requirements**

**“Experimental Design” - EPM227AN**

The theoretical material comprehensively reaches the topic of **architectural/environmental crime prevention based on topic relevant articles**, papers, books or book chapters, focusing on “László Kara's book”( available only in Hungarian language, but its content will be provided by lectures/presentations in English book. **To deepen the theoretical knowledge, the bi-weekly lectures are complemented by the completion of study assignments (4 in total) in the weeks in between.**

The task parts are performed **individual/personally.**

The control of knowledge is assessed and scored on three levels:

**1. Theoretical examination - Exam**

**2. Study assignment**

**Study 01 - Introduction of contemporary landscape projects**

min. 3 examples

min. 3x 2000 characters (no spaces) + figures

**Study 02 - Analysis of selected examples of contemporary landscape projects (1st study) from a crime prevention perspective**

min. 3 examples

min. 3x 2000 characters (no spaces) + figures

**Study 03 - Summary of a scientific article on crime prevention through architecture**

min. 4000 characters (no spaces) + figures

**Study 04 - Summary of a film on crime prevention through architecture**

min. 4000 characters (no spaces) + figures

Formal requirements:

It must be prepared and presented in the form of a study in A3 size, landscape format

**3. 10% of the evaluation of the “Experimental Design Studio”**

Note:

Three different sections together (“Investigation plan”, “Environmental concept design plan”, “Environmental final design plan”).

**“Experimental Design Studio” - EPM228AN**

During the studio (practical part), the work can be divided into 3 phases (details in the next chapter):

Section 1 - "Investigation plan"

Section 2 - "Environmental concept design plan"

Section 3 - "Environmental final design plan"

The practical task is about applying of the theoretical knowledge where student can create investigations/examinations, interventions and an environmental design plan based on the chosen area, using the full toolkit of architectural/environmental crime prevention.

The tasks are performed **individual/personally or in groups of max. two people**.

Based on the thematic of SAFCITY program: “Safecity - Security. City. Community ”based on a joint 2019 project of the National Crime Prevention Council, the Culture Active Association, and the Lechner Knowledge Center:

**The design task - two sites in Pécs - will be distributed via a separate task sheet.**

Content requirements:

The following aspects must be considered through the design process:

1. use of space based on the proposed functions.

2. maximum application of crime prevention principles and methods

3. sustainability, application of ecological approach.

**SUBMISSION 01**

**Section 1 - "Investigation plan"**

Work parts (based on site plan illustration, m1:500-1000):

-introduction and interpretation of the existing environment by using own taken **photos** about the design area (1)

- introduction and interpretation of the design area by **site cadaster map** (land registry, 1)

- introduction and interpretation of the **public utility map** (1)

- introduction and interpretation of the **topographical survey map** (1)

\_**indirect investigations**:

morphology – transport/traffic - green space system – activity of the building envelopes – value map – problem map (6)

\_**direct investigations**:

natural surveillance - use of space (regulation of entitlements and property relations) - examination of value status (maintenance and upkeep)

Comments:

\_drawings must be presented with a text explanation of at least 200 characters (no spaces)

\_legend about the used graphical symbols is required with each drawing

**SUBMISSION 02**

**Section 2 - "Environmental design concept"**

Work parts (based on site plan illustration, m1:200-1000):

\_Overview site plan m1:1000-2000

\_Site plan (with floor plan detailed contents) m1:500

\_Visual design (min. 5)

\_Inspirations (min. 5, which can be the same, used for the Study 01-02)

\_Proposed structures, materials and street furnitures

Design principles:

maximize natural surveillance - regulate use of space - increase maintainability – promotion of illumination - transparency - minimization of delimited routes - elimination of isolated, zigzag spaces - diverse land use - information - attractive aesthetic appearance with landscape architecture, garden design

Comments:

\_drawings must be presented with a text explanation of at least 200 characters (no spaces)

\_legend about the used graphical symbols is required with each drawing

**SUBMISSION 03**

**Section 3 - "Environmental final design plan"**

Work parts:

\_Overview site plan m1:500-1000

\_Site plan (with floor plan detailed contents) m1:200

\_Field section (min. 2) m1: 50-200

\_Detailed drawings m1: 20-50

\_Visual design (min. 5)

\_Certification of compliance of the principles and methods of crime prevention (Illustrated on axonometries or on site plan or on field sections with schematic drawing elements)

Comments:

\_drawings must be presented with a text explanation of at least 200 characters (no spaces)

\_legend about the used graphical symbols is required with each drawing

Content elements to be illustrated: \_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, 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 requirements:

a.) The plans must be prepared and presented in the form of a study

**"Investigation plan"**

A3 size, landscape format, min. 15 pages

**"Environmental concept design plan"**

A3 size, landscape format, min. 10 pages

**"Environmental final design plan"**

A3 size, landscape format, min. 15 pages

b.) The study must be carefully prepared, aesthetic and mature in landscape architecture.

**Instructor group classification:**

Group 1.

EPM228AN-LA-01 Experimental design studio: dr. Janos GYERGYAK

Group 2.

EPM228AN-LA-02 Experimental design studio: David OJO

Group 3.

EPM228AN-LA-01 Experimental design studio: Nicolas Ramos GONZALEZ

## Schedule

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Lecture | | | | |
| week | **Topic** | **Compulsory reading; page number**  **(from … to …)** | **Required tasks (assignments, tests, etc.)** | **Completion date, due date** |
| 1. | Introduction of the course |  |  |  |
| 2. | **Lecture: „Crime prevention through enviromental design tools 1.”** | Material of the lecture/presentation | Exam and  Design task from “Experimental Design Studio” - EPM228AN | Week 15 |
| 3. | Study 01: Introduction of contemporary landscape projects (Individual research project) |  | Study | Week 7 |
| 4. | Study 02: Analysis of selected examples of contemporary landscape projects (1st study) from a crime prevention perspective  (Individual research project) |  | Study | Week 7 |
| 5. | **Lecture: „Landscape design 1.”** | Material of the lecture/presentation | Design task from “Experimental Design Studio” - EPM228AN | Week 15 |
| 6. | Study 03: Summary of a scientific article on crime prevention through architecture 1/2  (Individual research project) |  | Study | Week 7 |
| 7. | **Lecture: „Crime prevention through enviromental design tools 2.”**  Submission of **Study 01** and **Study 02** | Material of the lecture/presentation | Exam and  Design task from “Experimental Design Studio” - EPM228AN | Week 15 |
| 8. | Study 03: Summary of a scientific article on crime prevention through architecture 2/2  (Individual research project) |  | Study | Week 14 |
| 9. | Spring holiday |  |  |  |
| 10. | **Lecture: „Landscape design 2.”** | Material of the lecture/presenttion | Design task from “Experimental Design Studio” - EPM228AN | Week 15 |
| 11. | Study 04: Summary of a film on crime prevention through architecture 1/2  (Individual project) |  | Study | Week 14 |
| 12. | Study 04: Summary of a film on crime prevention through architecture 2/2  (Individual project) |  | Study | Week 14 |
| 13. | **Lecture: „Crime prevention through enviromental design tools 3.”** | Material of the lecture/presentation | Exam and  Design task from “Experimental Design Studio” - EPM228AN | Week 15 |
| 14. | **Lecture: „Landscape design 3.”**  Submission of **Study 03** and **Study 04** |  | Design task from “Experimental Design Studio” - EPM228AN |  |
| 15. | **EXAM** |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Practice/Laboratory Practice | | | | |
| week | **Topic** | **Compulsory reading; page number**  **(from … to …)** | **Required tasks (assignments, tests, etc.)** | **Completion date, due date** |
| 1. | Introduction of the course |  |  |  |
| 2. | **"Investigation plan"** - consultation | Material of the lecture/presentation | Investigation work elements, see the detailed contents at the „Detailed requirements and schedule of the Course” part in the syllabus. | Week 5 |
| 3. | **"Investigation plan"** - consultation | Material of the lecture/presentation | Investigation work elements, see the detailed contents at the „Detailed requirements and schedule of the Course” part in the syllabus. | Week 5 |
| 4. | **"Investigation plan"** - consultation | Material of the lecture/presentation | Investigation work elements, see the detailed contents at the „Detailed requirements and schedule of the Course” part in the syllabus. | Week 5 |
| 5. | **SUBMISSION 01:**  **"Investigation plan"**  **"Environmental concept design plan"** - consultation | Material of the lecture/presentation | Investigation work elements, see the detailed contents at the „Detailed requirements and schedule of the Course” part in the syllabus.  Concept design work elements, see the detailed contents at the „Detailed requirements and schedule of the Course” part in the syllabus. | Week 10 |
| 6. | **"Environmental concept design plan"** - consultation | Material of the lecture/presentation | Concept design work elements, see the detailed contents at the „Detailed requirements and schedule of the Course” part in the syllabus. | Week 10 |
| 7. | **"Environmental concept design plan"** - consultation | Material of the lecture/presentation | Concept design work elements, see the detailed contents at the „Detailed requirements and schedule of the Course” part in the syllabus. | Week 10 |
| 8. | **"Environmental concept design plan"** - consultation | Material of the lecture/presentation | Concept design work elements, see the detailed contents at the „Detailed requirements and schedule of the Course” part in the syllabus. | Week 10 |
| 9. | Spring holiday |  |  |  |
| 10. | **SUBMISSION 02:**  **"Environmental concept design plan"**  **"Environmental final design plan" -** consultation | Material of the lecture/presentation | Concept design work elements, see the detailed contents at the „Detailed requirements and schedule of the Course” part in the syllabus.  Final design work elements, see the detailed contents at the „Detailed requirements and schedule of the Course” part in the syllabus. | Week 15 |
| 11. | **"Environmental final design plan" -** consultation | Material of the lecture/presentation | Final design work elements, see the detailed contents at the „Detailed requirements and schedule of the Course” part in the syllabus. | Week 15 |
| 12. | **"Environmental final design plan" -** consultation | Material of the lecture/presentation | Final design work elements, see the detailed contents at the „Detailed requirements and schedule of the Course” part in the syllabus. | Week 15 |
| 13. | **"Environmental final design plan" -** consultation | Material of the lecture/presentation | Final design work elements, see the detailed contents at the „Detailed requirements and schedule of the Course” part in the syllabus. | Week 15 |
| 14. | **"Environmental final design plan" -** consultation | Material of the lecture/presentation | Final design work elements, see the detailed contents at the „Detailed requirements and schedule of the Course” part in the syllabus. | Week 15 |
| 15. | **SUBMISSION 03:**  **"Environmental final design plan"** | Material of the lecture/presentation | Final design work elements, see the detailed contents at the „Detailed requirements and schedule of the Course” part in the syllabus. |  |

Pécs, 27.01.2022

Dr. János GYERGYÁK

course director