General Information:

Name of Course:

LECTURES ON EXPERIMENTAL DESIGN

EXPERIMENTAL DESIGN STUDIO

Course Code:	EPE027ANEM EPE028ANEM
Semester:	8th
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 Magyarország, Pécs, Boszorkány u. 2. B-332
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Instructors:

Ágnes BORSOS dr., associate professor
Office: 7624 Magyarország, Pécs, Boszorkány u. 2. E81
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Office telephone: +36 72 503650/23840

David OJO, assistant teacher
Office: 7624 Magyarország, Pécs, Boszorkány u. 2. E81
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ZHAO Tianyu, doctorate student
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E-mail: tianyu.zhao94@gmail.com

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

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.

ENVIRONMENTAL DESIGN + "SAFE ENVIRONMENT"

"Experimental Design" - EPM227AN
"THEORETICAL BLOCK"

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.

"Experimental Design Studio" - EPM228AN
"PRACTICAL BLOCK"

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

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.

The **"Experimental Design"** course ends with an **exam,** and the "Experimental Design Studio Course" with presentation (signature+grade). 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.

The evaluation will take into account the "environmental design" (design of open spaces) and "safe environment" / "crime prevention through environmental design (CPTED)" theoretical material examinations, as well as the practical task in three different sections (investigation, Proposals for intervention, Environmental design plan). Subjects are assessed by scoring as follows:

"Experimental Design" - EPM227AN

Theoretical examination – Test/Exam	30 points
Study	20 points
50% of the evaluation of the "Experimental Design Studio"	50 points
A maximum of	**100 points**

"Experimental Design Studio" - EPM228AN

Section 1 - "Investigation"	30 points
Section 2 - "Proposals for intervention"	20 points
Section 3 - "Environmental design plan"	50 points
A maximum of	**100 points**

Important notice:

a) The course is fullfiled only when all of the grading elements are achieved by at least 50% performance.
b) Late project submission take 20% deduction in points per week.
c) Highest possible grade after „Study Period" submission is '2'!

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, avarage	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 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

Methodology and criteria:

"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.

The task parts are performed individual/personally.

"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"
Section 2 - "Proposals for intervention"
Section 3 - "Environmental design plan"

The practical task is about applying of the theoretical knowledge where student is able to 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 in groups of 2 people.

Tasks and their requirements:

"Experimental Design" - EPM227AN

In the theoretical block - "Experimental design" - the control of knowledge of knowledge is assessed and scored on three levels:

1. Theoretical examination - Test/Exam

Note:

Exam is the replacemen /correction of test.

2. Study

Content requirement:

Presentation of contemporary environmental design examples (min. 3 examples) min. 3x 2000 characters + 5 figures

Formal requirements:

It must be prepared and presented in the form of a study in A3 size, landscape format, min. 6 - max 15 pages

3. 50% of the evaluation of the "Experimental Design Studio"

Note:

Three different sections together (Investigation, Proposals for intervention, Environmental design plan).

"Experimental Design Studio" - EPM228AN

Based on the SAFCITY program, according to a separate terms of reference

SAFECITY 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

More information is available here: https://www.safecity.hu/

Content requirements:

a.) 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.

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

1. "PRESENTATION 01" See further information at “ANNEX 01”

Section 1 - "Investigation"
m1: 500-1000

indirect investigations:
morphology – transport/traffic - green space system - space walls

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

Section 2 - "Proposals for intervention"
m1: 200-1000

focusing on the following aspects:
lighting - transparency - minimization of delimited routes - elimination of isolated, zigzag spaces - diverse land use - information - attractive aesthetic appearance with landscape architecture, garden design

2. "PRESENTATION 02" See further information at “ANNEX 02”

Section 3 - "Environmental design plan"

work parts:
_Overview site plan m1: 500
_Demolition plan m1: 200
_Site plan m1: 200
_Field section (min. 2) m1: 50-200
_Detailed drawings m1: 20-50
_Visual design (min. 3)
_Certification of compliance of the principles and methods of crime prevention (Illustrated on “site plan” and/or “field section” and or “schematic drawings”)

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, 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

"PRESENTATION 01".
A3 size, landscape format, min. 10 - max 15 pages

PRESENTATION 02.
A3 size, landscape format, min. 20 - max 30 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: Ágnes BORSOS dr.
Group 2.
EPM228AN-LA-02 Experimental design studio: David OJO
Group 3.
EPM228AN-LA-01 Experimental design studio: ZHAO Tianyu

Program by week:

Week 01	Friday 18:30 – 20:00	Thursday 16:45 – 20:00
Section 1 - "Investigation"	Lecture	Studio
Methodology	Presentation	Individual/group work
Assignment	**Introduction of the course (syllabus and schedule)**	No class

Week 02	Thursday 15:00 – 16:30	Thursday 16:45 – 20:00
Section 1 - "Investigation"	Lecture	Studio
Methodology	Theroretical presentation	Individual/group work
Assignment	Individual research work	Consultation of the „investigation" task Note: _Consultation materials have to be uploaded before starting the consultation.

Week 03	Thursday 15:00 – 16:30	Thursday 16:45 – 20:00
Section 1 - "Investigation"	Lecture	Studio
Methodology	Theroretical presentation	Individual/group work
Assignment	**„Crime prevention through enviromental design tools 1."** Note: _The presentations will be available on „Neptun meet street" and Microsoft Teams. _The content of the presentation will be reported in the „Midterm exam".	Consultation of the „investigation" task Note: _Consultation materials have to be uploaded before starting the consultation.

Week 04	Thursday 15:00 – 16:30	Thursday 16:45 – 20:00
Section 1 - "Investigation"	Lecture	Studio
Methodology	Theroretical presentation	Individual/group work
Assignment	Individual research work	**Consultation of the „investigation" task** Note: _Consultation materials have to be uploaded before starting the consultation.

Week 05	Thursday 15:00 – 16:30	Thursday 16:45 – 20:00
Section 2 - "Proposals for intervention"	Lecture	Studio
Methodology	Theroretical presentation	Individual/group work
Assignment	**„Landscape design 1."** Note: _The presentations will be available on „Neptun meet street" and Microsoft Teams. _The content of the presentation will be reported in the „Midterm exam".	**Consultation of the „proposal for intervention" task** Note: _Consultation materials have to be uploaded before starting the consultation.

Week 06	Thursday 15:00 – 16:30	Thursday 16:45 – 20:00
Section 2 - "Proposals for intervention"	Lecture	Studio
Methodology	Theroretical presentation	Individual/group work
Assignment	Individual research work	**Consultation of the „proposal for intervention" task** Note: _Consultation materials have to be uploaded before starting the consultation.

Week 07	Thursday 15:00 – 16:30	Thursday 16:45 – 20:00
Section 2 - "Proposals for intervention"	Lecture	Studio
Methodology	Theroretical presentation	Individual/group work
Assignment	**„Crime prevention through enviromental design tools 2."** Note: _The presentations will be available on „Neptun meet street". _The content of the presentation will be reported in the „Midterm exam".	**Consultation of the „proposal for intervention" task** Note: _Consultation materials have to be uploaded before starting the consultation.

Week 08	Thursday 15:00 – 16:30	Thursday 16:45 – 20:00
Section 2 - "Proposals for intervention"	Lecture	Studio
Methodology	Theroretical presentation	Presentation
Assignment	Individual research work	**PRESENTATION 01** Note: _Presentations have to be uploaded before starting the class.

Week 09	Thursday 15:00 – 16:30	Thursday 16:45 – 20:00
Section 3 - "Environmental plan"	Lecture	Studio
Methodology	Theroretical presentation	Individual/group work
Assignment	**STUDY SUBMISSION** **„Landscape design 2."** Note: _The presentations will be available on „Neptun meet street". _The content of the presentation will be reported in the „Midterm exam".	**Consultation of the „enviromental plan" task** Note: _Consultation materials have to be uploaded before starting the consultation.

Week 10	Monday 13:15 – 15:45	
Section 3 - "Environmental plan"	Lecture	Studio
	Presentation	Individual/group work
	SPRING HOLIDAY	

Week 11	Friday 18:30 – 20:00 !!!!!!	Thursday 16:45 – 20:00
Section 3 - "Environmental plan"	Lecture	Studio
Methodology	Theroretical presentation	Individual/group work
Assignment	**„Crime prevention through enviromental design tools 3."** Note: _The presentations will be available on „Neptun meet street". _The content of the presentation will be reported in the „Midterm exam".	**Consultation of the „enviromental plan" task** Note: _Consultation materials have to be uploaded before starting the consultation.

Week 12	Thursday 15:00 – 16:30	Thursday 16:45 – 20:00
Section 3 - "Environmental plan"	Lecture	Studio
Methodology	Theroretical presentation	Individual/group work
Assignment	Individual research work	**Consultation of the „enviromental plan" task** Note: _Consultation materials have to be uploaded before starting the consultation.

Week 13	Thursday 15:00 – 16:30	Thursday 16:45 – 20:00
Section 3 - "Environmental plan"	Lecture	Studio
Methodology	Theroretical presentation	Individual/group work
Assignment	**MIDTERM TEST**	**Consultation of the „enviromental plan" task** Note: _Consultation materials have to be uploaded before starting the consultation.

Week 14	Thursday 15:00 – 16:30	Thursday 16:45 – 20:00
Section 3 - "Environmental plan"	Lecture	Studio
Methodology	Theroretical presentation	Individual/group work
Assignment	Individual research work	**PRESENTATION 02** Note: _Presentations have to be uploaded before starting the class

Week 15	Thursday 15:00 – 16:30	Thursday 16:45 – 20:00
Section 3 - "Environmental plan"	Lecture	Studio
Methodology	Theroretical presentation	Individual/group work
Assignment	**MIDTERM TEST (RETAKE OPTION)**	**PRESENTATION 02 (RETAKE OPTION)** Note: _Presentations have to be uploaded before starting the class.

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

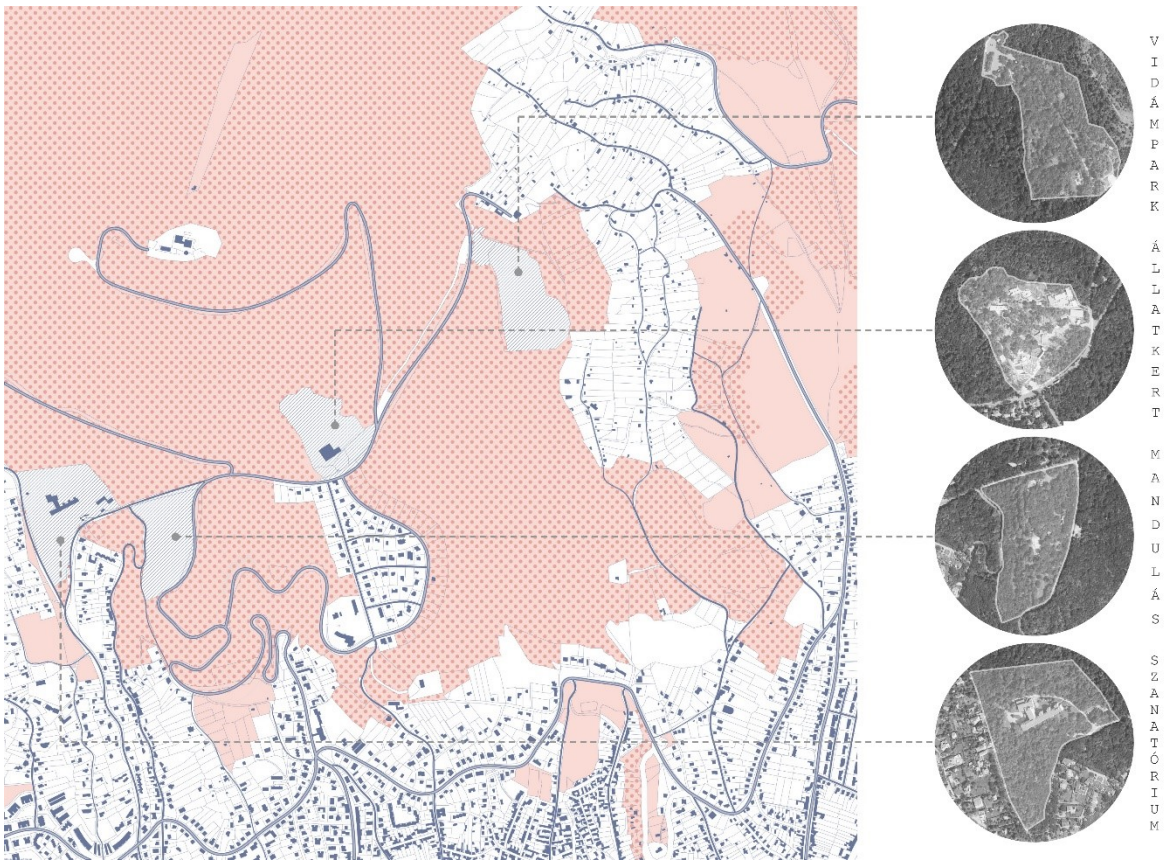
Pécs, 29.01.2021

ANNEX 01

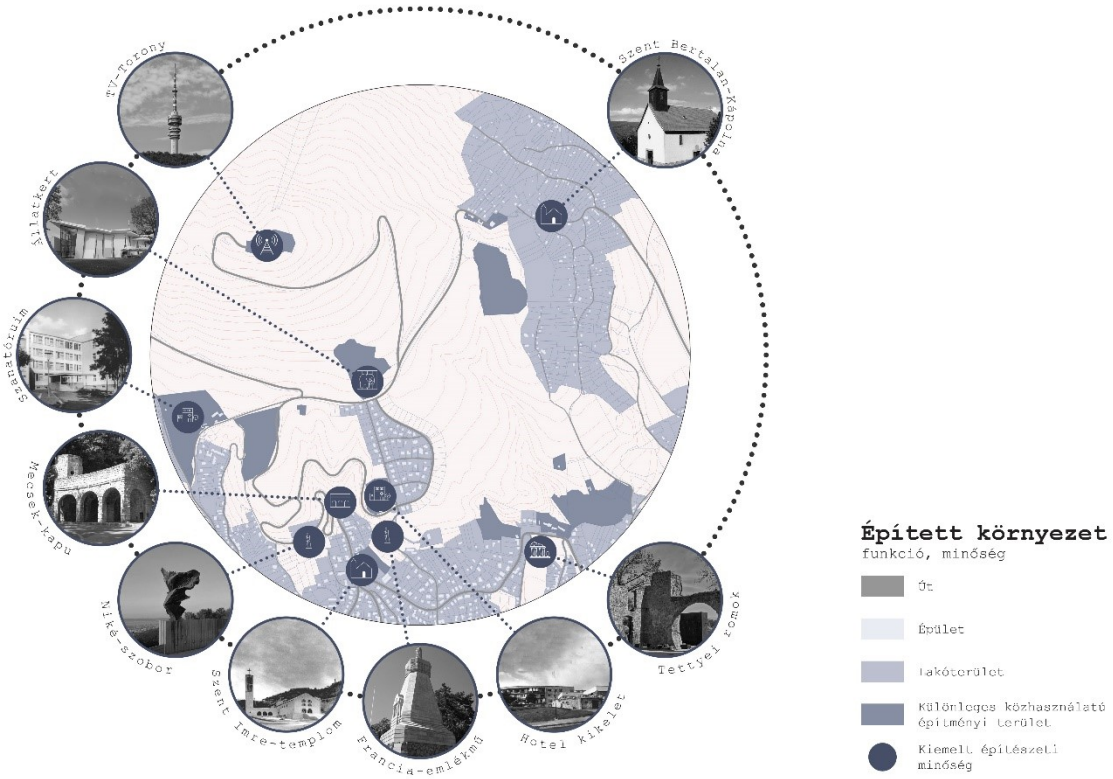
Inspiration for "PRESENTATION 01" (random selected elements)

Inspiration by „Kisérleti tervezés" course (Hungarian equivalent of „Experimental design") from the spring semester of 2019/2020 academic year, author: Zsolt Torok, architect students, UP FEIT

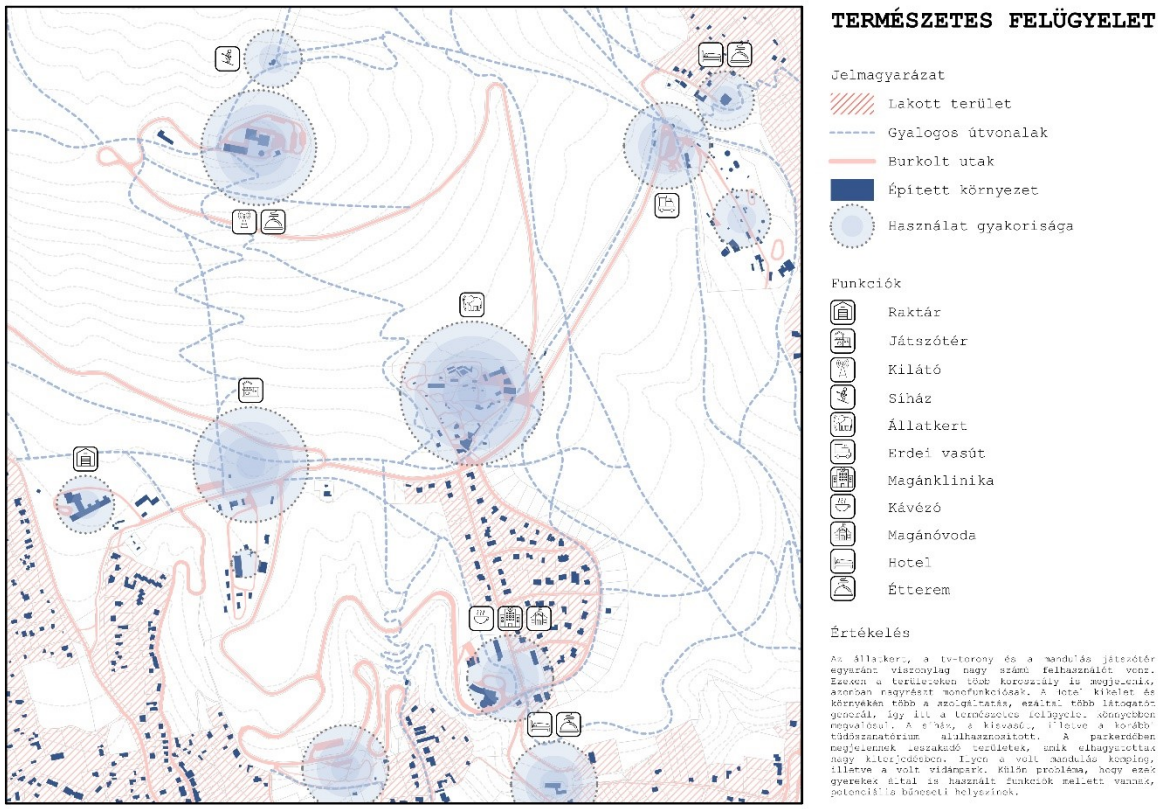
Overview site plan (south part of Mecsek hill)



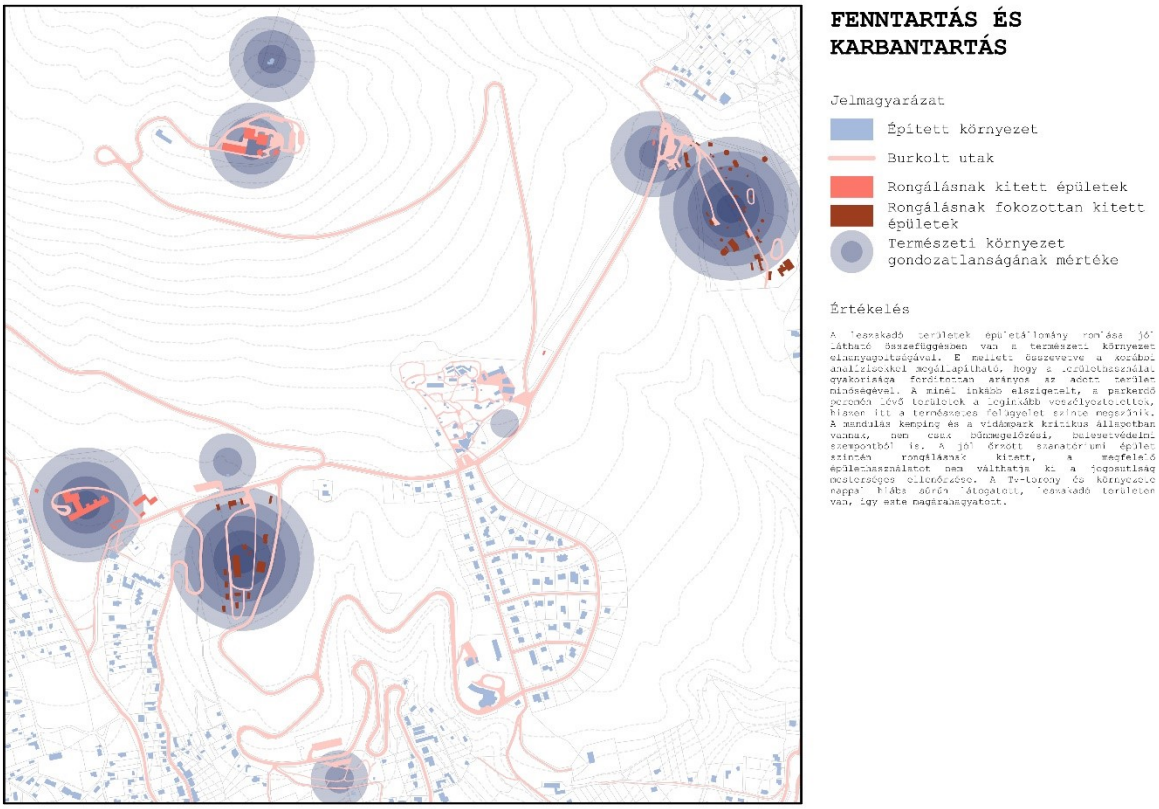
Values of built environment



Investigation based on „natural surveillance”



Investigation based on „maintenance”



ANNEX 02

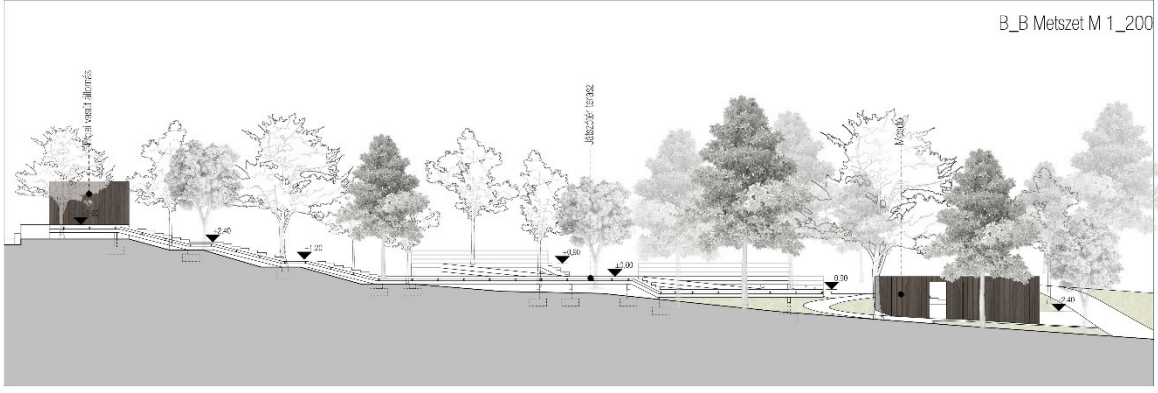
Inspiration for "PRESENTATION 02" (random selected elements)

Inspiration by „Kisérleti tervezés" course (Hungarian equivalent of „Experimental design") from the spring semester of 2019/2020 academic year, author: Zsolt Torok, architect students, UP FEIT

Site plan m1: 200

Field section (min. 2) m1: 50-200

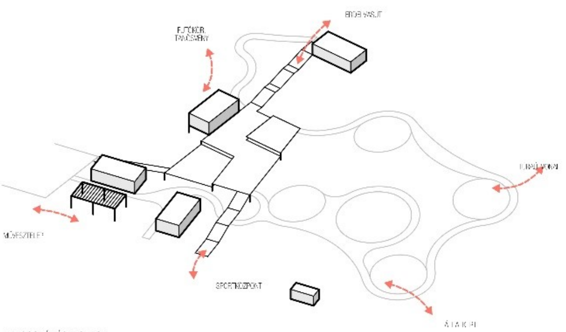
B_B Metszet M 1_200



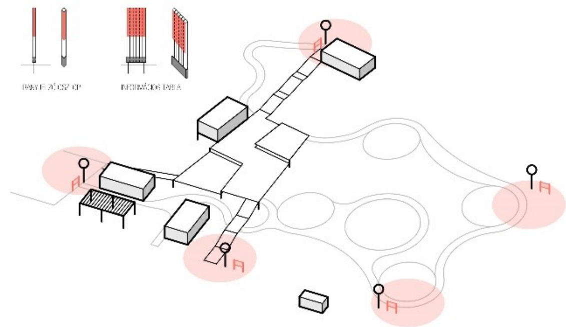
A_A Metszet M 1_200

Visual design (min. 3)

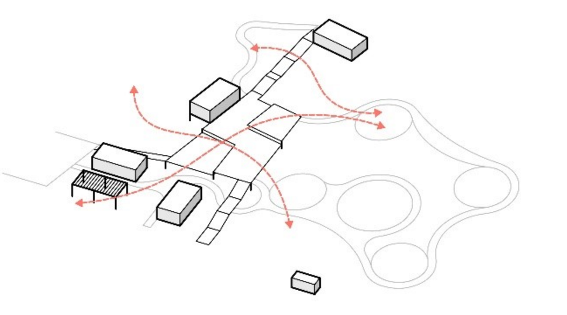
Certification of compliance of the principles and methods of crime prevention (illustrated on " "schematic drawings")



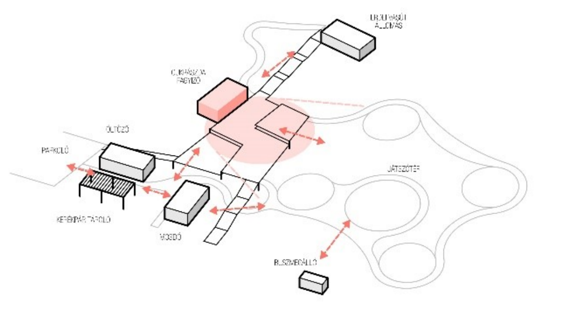
KAPCSOLÓDÁS PONTOK
A Mandulás játszótér több parkerdei funkció metszéspontjába kerül, ezzel központ szerepe lesz. A területet behálózó közlekedőrendszer úgy lett kialakítva, hogy a lehető legtöbb kapcsolatot megteremtse környezetével. Az épületek tájolásukkal irányt mutatnak, ezzel segítve a tájékozódást. A sok kapcsolódási pontnak köszönhetően mind a játszótér, mind a fogyasztó terasz többféleképpen megközelíthető, ezzel is minimalizálva a lehatárolt útvonalak számát.



BE ÉS KIJÁRATOK
A be és kijáratok azok a csomóponti helyek amiknek egyértelműnek kell lenni, megfelelő megvilágítással. Különböző irányjelző oszlopok, információs táblák, térképek telepítése szükséges, ezzel megkönnyítve a látogatók tájékozódását, biztonságérzetet nyújtva. Ezek a bútorok színkód szerint rendezettek, illetve vandálbiztos kialakítással készülnek.



LAZA TELEPÍTÉS
A funkciódobozok laza telepítésükkel sokkal könnyebben illeszkednek a természeti környezetbe. A kialakuló térközök lehetővé teszik az átlátást a teljes területen. Az optimális telepítési távolságoknak köszönhetően megmarad a vizuális kapcsolat közöttük.



FUNKCIÓKEVERÉS, TERMÉSZETES FELÜGYELET
Az épületek úgy lettek telepítve, hogy laza látótávolságban legyenek egymástól, ezáltal használat közben, természetes úton valósul meg a közösségi kontroll. A központba a cukrászda épülete kerül, szándékosan megemelt szituációban, amit a domborzat is előrevetít, hogy innen a dolgozók, és a látogatók is szemmel tarthassák a játszótér és környezetének területét. Ez a kapcsolat természetesen kétirányú. Az új funkciók célja, hogy felerősítse a Mandulás játszótér közönségvonzó képességét, több korosztály számára, a nap több szakaszában nyújtson szórakozást.