URBAN INFRASTRUCTURE

Course name / Tantárgy neve

Neptun code: SGYMESZTIS1

Compulsory/ Optional course

DEPARTMENT	School of Architecture, Department of		
COURSE LEADER	Dr. Klara Macsinka	macsinka.klara@uni-obuda.hu	office hours by arrangement
LECTURER	Dr. Klara Macsinka	macsinka.klara@uni-obuda.hu	office hours by arrangement

THE COURSE AIMS

To introduce importance and key role of the urban infrastructure in city planning and operation of a settlement and showing methods for developing a good practice in the cooperation of land use and transport planning.

PRECONDITION	
DESCRIPTION	The subject is to introduce the students to the basic notions, elements and the operational principles of urban infrastructure. During the seminar students will hear about main types of urban infrastructure, connections to national systems and their defining role in the urban environment and in city structures. Through case studies issues of transport, water and energy supply, their management organisations and the network of open spaces and their relationships, possibilities and means of development will be discussed.
LECTURES / WEEK	1.x 45’
SEMINARS / WEEK	2.x 45’
ASSESMENT	Final grade
ECTS CREDITS	4

SEMESTER OUTLINE

WEEK	DATE	LECTURE	SEMINAR
1		Urban infrastructure - an introduction	Handing out assignments for the semester. Discussion of common knowledge and thinking of urban infrastructure.
2		LandUse and TRansport (LUTR) – interconnections	Discussion of case studies. Consultation of the chosen topic of the assignment.
3		Roads, networks, traffic control	Discussion about planned cities and their networks.
4		Public transportation	Discussion of case studies. Consultation.
5		Parking management	Planning a sustainable parking system in a middle-size city. Consultation.
6		Sustainable transportation	Application of SUMP principles in a city. Consultation.
7		Community spaces and transportation spaces	Site visit of a complex square.
8		Master Plans and transportation networks	Discussion of case studies. Consultation.
9		Accessibility of buildings	Discussion of case studies. Consultation.
10		Smart cities.	Presentation of individual work of students
11		*Autumn holiday*	-
12		Public utilities 1. (water supply, drainage)	Presentation of individual work of students
13		Public utilities 2. (energy networks)	Discussion of case studies. Presentation of individual work of students
14.		Test	Consultation.

TASKS

1. TASK	Preparation of a study on a chosen city-network.	25 Points
2. TASK	Presentation of the findings and solutions for the problems identified in the study (15 minutes).	15 Points
3. TASK	Test	60 Points
TOTAL		**100 Points**

RULES OF ATTENDANCE AT LECTURES AND SEMINARS

Participation at the seminars is compulsory. Three absence can be accepted.

COMPLETION CRITERIA

Minimum of 60 points is to be achieved in the semester (out of 100 points).

RECOMMENDED LITERATURE

Notes and presentation from e-learning site of the subject.

EVALUATION

0-60 points	61-70 points	71-80 points	81-90 points	91-100 points
1- FAILED	**2 - SUFFICIENT**	**3 - SATISFACTORY**	**4 - GOOD**	**5 - EXCELENT**