

# URBAN INFRASTRUCTURE

## 2024/25. 1. SEMESTER

BASICS		
<b>COURSE NAME</b>	Urban Infrastructure	
<b>COURSE CODE(S)</b>	YCWUAIFMNF	
<b>DEPARTMENT</b>	Óbuda University Ybl Miklós Faculty of Architecture and Civil Engineering, Institute of CE	
<b>PROGRAMME, TRAINING</b>	Architecture MSc	full time
<b>COURSE INSTRUCTOR</b> (Instructor managing the course)	Dr. Klara Macsinka PhD, Associate Professor macsinka.klara@ybl.uni-obuda.hu	office hours by arrangement
<b>INSTRUCTORS, LECTURERS</b>	Dr. Klara Macsinka PhD, Associate Professor macsinka.klara@ybl.uni-obuda.hu	office hours by arrangement
<b>PRE-REQUIREMENT</b>	Community and Urban Planning	
<b>HOURS OF LECTURES (WEEKLY)</b>	1 x 45'	
<b>HOURS OF CLASSROOM PRACTICE/ LAB EXERCISE (WEEKLY)</b>	2 x 45'	
<b>FIELD AND TRAINING (WEEKLY)</b>	0 hours	
<b>ASSESSMENT</b>	Final grade	
<b>CREDITS</b>	4 credits	
<b>DESCRIPTION</b>	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.	
<b>RECOMMENDED LITERATURE</b>	<ul style="list-style-type: none"> <li>• Matt Burdett: Urban infrastructure</li> <li>• Dr. Jean-Paul Rodrigue :Urban Land Use and Transportation</li> <li>• Notes and presentation from e-learning site of the subject</li> </ul>	
<b>REQUIRED TECHNICAL APPLIANCES/ SOFTWARE</b>	Scientific calculator may be used during tests. Use of mobile phones, smart watches and other technical equipment is forbidden! In case of Online studies: Contact: through Neptun-system and e-mail. Notes and presentation: uploaded to the E-learning-site. Lectures and seminars: Google Meet.	

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

<b>REQUIREMENTS FOR THE COMPLETION OF THE SEMESTER</b>		
<b>MID-SEMESTER TASKS AND TESTS</b>		
<b>Criteria</b>	<b>Description</b>	<b>Value (point, %, grade)</b>
<b>RULES OF ATTENDANCE AT LECTURES AND SEMINARS</b>	Participation at the seminars is compulsory. Three absence can be accepted.	-
<b>ACCEPTANCE OF ABSENCE</b>	Absence can be acknowledged by a doctor's notice.	-
<b>Short description of the TASKS</b>	Preparation of a study on a chosen city-network. Presentation of the findings and solutions for the problems identified in the study (15 minutes).	40 points
<b>TESTS</b>	At the end of semester, one successful tests must be completed by the students. Timing of test will be clearly given in the beginning of the semester. The test will contain 4 questions about topics covered in the semester. Tests can be repeated once.	60 points
<b>TOTAL</b>		100 points

SEMESTER CLOSING REQUIREMENTS					
<b>CONDITIONS FOR OBTAINING A SIGNATURE</b>	Participation at the lessons. At least 25 points must be achieved for the study plan and at least 35 points in the tests. In case any of the above requirements is not fulfilled, the semester will be refused.				
<b>CONDITIONS FOR OBTAINING AN OFFERED GRADE</b>	-				
<b>CONDITIONS FOR ADMISSION TO THE EXAM</b>	-				
<b>FINAL GRADE</b>	0-59 Point	60-69	70-79	80-89	90-100
	1 - FAIL	2 - PASS	3 - SATISFACTORY	4 - GOOD	5 - EXCELLENT