

Course syllabi

1. Data on the study programme

1.1 Institution	Technical University of Cluj-Napoca
1.2 Faculty	of Architecture and Urban Planning
1.3 Department	Urban Planning
1.4 Domain	Architecture
1.5 University level	Licence and master's degree
1.6 Study programme/Qualification	Architecture
1.7 Form of studies	IF – on-site full-time studies
1.8 Course / studio code	73.10

2. Data on the course

2.1 Name of the course	URBAN MOBILITY				
2.2 Course/ Studio Head	Associate professor Vlad Sebastian Rusu, Arch. PhD				
2.3 Head of seminary/ laboratory/ studio	-				
2.4 Study year	V	2.5 Semester	2	2.6 Type of evaluation	Exam
2.7 Course /studio regime	Formative category: fundamental (DF)/ linked to the domain (DD)/ specific (DS)/ complementary (DC)				DD
	Compulsory (DI)/ Optional/ (DOP)/ Voluntary (DFac)				DOP

3. Total estimated time

3.1 Number of hours/week	2	out of which:	3.2 Course	2	3.3 Seminary	0	3.3 Laboratory	0	3.3 Project	0
3.4 Number of hours/semester	28	out of which:	3.5 Course	28	3.6 Seminary	0	3.6 Laboratory	0	3.6 Project	0
3.7 Distribution of time (hours)/ semester for:										
(a) Individual study supported by course textbook, course text, bibliography, and notes										6
(b) Supplementary study in the library, online, and on site										10
(c) Preparation for seminars/ laboratories/ assignments, reports, portfolios, and essays										5
(d) Tutoring										0
(e) Examination										1
(f) Other activities										-
3.8 Total hours of individual study (sum (3.7(a)...3.7(f)))					22					
3.9 Total semestrial hours (3.4+3.8)					50					
3.10 Number of credits					2					

4. Preconditions (where applicable)

4.1 curriculum preconditions	-
4.2 competence preconditions	Competences and knowledge acquired in fundamental courses such as: <i>Urban Structures and Urban Design Foundation</i> may constitute a basis for a good understanding of notions and information discussed in the present course.

5. Conditions (where applicable)

5.1. for the course	On site, in the allocated classroom (according to the faculty schedule). Attendance is a condition for examination. See also „10. Assessment method”.
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5.2. for the seminary	-
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6. Specific competencies

	<ul style="list-style-type: none"> • Ability to act with knowledge of society, and to work with clients and users that represent society's needs • Ability to develop a project brief through definition of the needs of society users and clients, and to research and define contextual and functional requirements for different types of urban environments. <ul style="list-style-type: none"> • Understanding of the social context in which built environments are procured, of ergonomic and space requirements and issues of equity and access. • Awareness of the relevant codes, regulations and standards for planning, design, construction, health, safety and use of built environments. • Awareness of philosophy, politics, and ethics as these are related to architecture. • Ability to act with knowledge of natural systems and built environments. • Understanding of conservation and waste management issues. • Understanding of the life cycle of materials, issues of ecological sustainability, environmental impact, design for reduced use of energy, as well as passive systems and their management. • Awareness of the history and practice of landscape architecture, urban design, as well as territorial and national planning and their relationship to local and global demography and resources.
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7. Objectives of the discipline

7.1 General objective of the discipline	<ul style="list-style-type: none"> • Identifying and understanding the challenges of the urban architect profession within urban mobility issues. • Awareness of the importance of urban mobility within the contemporary city and understanding the conditioning relationship between it and urban development.
7.2 Specific objectives	<ul style="list-style-type: none"> • Knowledge of general notions related to sustainable urban mobility, drawn up based on the principles of integration, participation and continuous evaluation to meet people's mobility needs in terms of increasing the quality of life in cities and their surroundings. • Acquiring notions related to the classification and arrangement of urban circulations within the contemporary city. • Revealing the principles of urban design related to mobility and accessibility within the city's public spaces.

8. Content/Syllabi

8.1 Course	No. of hours	Teaching methods	Notes
C1 - Mobility and the challenges of urban space.	2	Lectures supported by projections, Discussions on the reader of the course and presentations.	Students are encouraged to engage in talks throughout the course
C2 - Principles of efficient transport and urban mobility management. Integrated transport strategies.	2		
C3 - Interurban traffic. Roadway. Railway. Water way. Air way.	2		

C4 - 5 - Urban traffic. Urban traffic network. Ensuring accessibility for all urban residents.	4		and to present the stage of their individual study.
C6 - Urban transport systems. Public transport. Classifications. Network and stations.	2		
C7 - Street, space for the coexistence of different types of mobility. Street plan. The elements of the street. Parking lots. Street equipment.	2		
C8 - Restructuring of spaces in the city reserved for urban traffic.	2		
C9 - 10 - Intersections and squares. General notions. Classification of intersections. Traffic organization. Special purpose traffic squares. Structure of squares.	4		
C11 - Street planning. Ways of approaching the urban space of the street according to the speed of movement.	2		
C12 - 13 - Urban development of squares in accordance with sustainable principles regarding urban mobility. Quality seats, level of detail	4		
C14 - Quays and waterfront development in accordance with sustainable urban mobility principles.	2		
NOTE: the permanent actualization of the course matter might lead to minor changes in its structure			
<p>Bibliography :</p> <p>- Jan Gehl – <i>Cities for People</i>, Ed. Igloomedia, București 2012</p> <p>Other titles:</p> <p>- London Municipality - <i>Transport for London. Central London. Congestion Charging. Impacts Monitoring. Sixth Annual Report</i>. Transport for London & Central London Partnership, 2019.</p> <p>- <i>Copenhagen City of Cyclists - Bicycle account 2018</i>, Copenhagen Municipality, 2018</p> <p>- Gehl Architects - <i>Towards a Fine City for People - Public Spaces - Public Life - London 2004</i>, London: Transport for London & Central London Partnership, 2004</p> <p>A selection of texts can be found in the annex of the course, on the course TEAMS channel.</p>			
8.2 Seminary / laboratory / project	No. of hours	Teaching methods	Notes
-	-	-	-
Bibliography			

9. Harmonizing the content of the discipline with the expectations of the epistemic community, the professional associations, and representative employers

Students obtain the necessary skills and knowledge to exercise the profession of urban architect, within multidisciplinary groups aimed at finding solutions to the contemporary problems of urban and interurban mobility.

10. Assessment

Type of activity	10.1 Evaluation criteria	10.2 Assessment method	10.3 Calculation of final grade
10.4 Course	- Checking the knowledge gained through synthesis topics.	- Exam	100%

	According to the ECTS/UTCN Regulations, art. 6.4, the Faculty Council has decided that attending courses is compulsory in a percentage of at least 50%. The situation of attendance will be updated weekly on the Teams channel dedicated to the course. Students who have not attended 50% of the courses will not be able to participate in the final exam and will need to recontract the course.		
10.5 Seminary/Laboratory	-	-	-
10.6 Minimal standard for passing			
• a grade of minimum 5			

Date :	Head of course	Title, Name, Surname	Signature
14.07.2023	Course	Associate professor Vlad Sebastian Rusu, Arch. PhD	
	Seminary/Lab	-	-

Date of validation by the Department Council: _____	Chief of Department Associate professor Vlad Sebastian Rusu, Arch. PhD
Data of approval in the Faculty Council: _____	Dean Associate professor Dragoş Şerban Ion Ţigănaş, Arch. PhD