COURSE SYLLABUS						
Course Title	**Course Code**	**Semester**	**Course Hour/Week**		**Credit**	**ECTS**
Urban Development Planning and Design	ARCH454	8	**Theory** 3	**Practice** 0	3	5
Course Type	Compulsory Courses	Department Elective	Faculty Elective	University Elective	CoHE (YÖK) Compulsory	Other
			X			
Level of Course	Associate Degree (Short Cycle)		Undergraduate (First Cycle)		Graduate / Doctoral (Second / Third Cycle)	
			X			

Language of Instruction	English

Course Instructor(s)	Sn.instr.Marjan Alikhanzadeh	E-mail : Marjan.alikhanzadeh@arucad.edu.tr Office : ES OFF04	
Course Objectives			
Course Learning Outcomes	**Students will be able to:**	**Teaching methods**	**Evaluation methods**
	Define and describe the principles of master planning, housing planning, and responsive environments, including key concepts such as density, permeability, and human-centered design.	Lectures, illustrated presentations, guided discussions, reading-based explanations	Written midterm exam
	2. Explain, summarize, and interpret population structure, household characteristics, and per-capita standards in order to prepare a planning brief.	Lectures, worked examples, in-class problem explanation, discussion of case studies	Written midterm exam
	3. Apply, calculate, and organize population data, density indicators, residential land requirements, and	Step-by-step demonstrations, calculation exercises, supervised studio work, showing-by-explaining	Weekly project progress submissions

	housing mix into systematic planning tables and diagrams.	Brain storming	
	4. classify and examine urban structure elements such as movement networks, blocks, plots, housing typologies, and open spaces within a neighborhood master plan.	Studio critiques, analytical exercises, comparative discussions, diagrammatic analysis Brain storming	Weekly project progress submissions
	5. Produce, synthesize, and plan an integrated neighborhood master plan by translating numerical planning data into spatial urban form, including streets, parcels, and a designed public open space.	Design studio, iterative feedback, individual consultations, design reviews Brain storming	Final project and design portfolio
Course Content	This course introduces students to the **theory and practice of Urban planning and neighborhood-scale master planning**. The course integrates **quantitative planning methods** (population analysis, per-capita standards, density and land calculation) with **urban design principles** (movement, urban morphology, legibility, variety, and human scale). Students learn to translate numerical planning data into **spatial urban structure**, including streets, blocks, plots, and public open spaces, and to evaluate planning decisions from a **human-centered and responsive urban design perspective**.		

COURSE OUTLINE/SCHEDULE			
Week	Topic	Implementation (theory/practice)	Required Reading, Preliminary preparation
1	Introduction to the course and syllabus (course overview, expectations, and assessments). Overview of the semester project	T	Preparation is not required.
2	Course Introduction ,Master plan & Housing Planning Overview, Responsive design • What is a master plan? • Housing as an urban system • Introduction to responsive environments	T	See the required reading.

	• Strategic scale of planning		
3	Permeability • Permeability principles • Designing the street/block system • Street types and junction design Population & Household Analysis, • Defining planning goals beyond land use • Population structure • Household size assumptions	T	See the required reading.
4	Variety of function and landuse Residential Density Concepts • Gross vs net density • Density implications • Population, Density & Capacity Per-Capita Standards (Theory & Practice) • Educational, green, commercial land uses • Per-capita calculation table	T	See the required reading.
5	Legibility • Making cities understandable • Paths, edges, nodes, landmarks • Mental maps • Hierarchy of spaces Robustness • Robust family houses • Preferred building – configuration • Active building fronts	T	See the required reading.
6	Visual appropriateness • Detailed appearance: a specification • Looking for visual cues • Contextual cues: the surrounding area • Contextual cues: the adjacent buildings	T	See the required reading.

	• Viewing distances, numbers and times Project: Analysis of strategic scale		
7	Richness • Non-visual richness • Visual contrasts Urban morphology Project: Analysis of site	T	See the required reading.
8	Personalisation • Internal walls • Thresholds • Windows • External surfaces Project: • Goals and strategies • Vision statement • Policies	T	Preparation is required.
9	Translating Numbers into Urban Form • Streets, blocks, neighborhoods • Conceptual master plan sketch	T	See the required reading.
10	• Design Alternatives • Conceptual design Open Space & Green Networks • Open space as social and ecological infrastructure • Connected green systems • Multi-functional parks • Climate responsiveness Project: Conceptual design	T	See the required reading.
11	Neighborhood Structure & Human Scale • From city to neighborhood • Walkable neighborhoods • Neighborhood population thresholds • Connectivity vs isolation	T	See the required reading.

	Project: Analysis and selection of best alternative		
12	Open Space & Green Networks • Open space as social and ecological infrastructure • Connected green systems • Multi-functional parks • Climate responsiveness Project: Urban Design 3D master plan	T	See the required reading.
13	Infrastructure Capacity & Constraints • Services and limits • Infrastructure checklist Project: Urban Design 3D master plan	T	See the required reading.
14	Public–Private Interface & Visual Appropriateness • Reading urban space intuitively • Public–private gradients • Active frontages • Visual appropriateness Project: Urban Design 3D master plan	T	See the required reading.
15	Phasing, Infrastructure & Implementation • Time as a design tool • Development phasing • Infrastructure alignment • Flexible regulations Project: Urban Design 3D master plan	T	See the required reading.
16	**FINAL EXAM WEEK**	T	Preparation is required.

Required Course Material(s) / Reading(s)/ Text Book(s)	• Smets M., . (2022). Foundations of urban design. New York: Actar Publishers. **/Call number: HT166 .S5879 2022** • Adams D., Tiesdell S., . (2013). Shaping Places. London: Routledge. **/Call number: HT371 .A33 2013** • Goh K., Loukaitou-Sideris A., Mukhija V. & Vale L. J. (2022). Just urban design. Cambridge, Massachusetts: The MIT Press. **/Call number: HT166 .J87 2022/**

Recommended Course Material(s)/ Reading(s) /Other	• Bishop, P., & Williams, L. (2012). The temporary city. Routledge. • Schneider, T., & Till, J. (2007). Flexible housing. Architectural Press. • Crawford, M. (1999). Everyday urbanism. In J. Chase, M. Crawford, & J. Kaliski (Eds.), Everyday urbanism (pp. 8–15). Monacelli Press. • Whyte, W. H. (1980). The social life of small urban spaces. Project for Public Spaces. • Gehl, J. (2011). Life between buildings: Using public space (6th ed.). Island Press.

ASSESSMENT		
Learning Activities	**NUMBER**	**WEIGHT in %**
Mid-Term	1	30
Quiz		
Assignment		
Project		
Field Study		
Presentation / Seminar		
Studio Practice		
Other: Portfolio	1	40
Contribution of Final Examination/Final Project/ Dissertation to the Final Grade	1	30
TOTAL		100

CONTRIBUTION OF COURSE LEARNING OUTCOMES TO PROGRAMME LEARNING OUTCOMES						
No	**PROGRAMME LEARNING OUTCOMES**	Level of Contribution (1-lowest/ 5- highest)				
		1	2	3	4	5
1	Understand architectural history, theory, and cultural heritage, including the relationship between local/vernacular traditions and global architectural discourse.		x			

2	Understand the technical knowledge and the principles of structural systems, building technology, environmental performance, and construction processes as integrated components of architectural design.	x				
3	Comprehend sustainability, ecological sensitivity, and climate-responsive design principles and their application across different scales of the built environment.			x		
4	Recognize the legal, ethical, and professional frameworks governing architectural practice, including relevant codes, standards, universal ethical values, and the principles of project management and cost estimation.			x		
5	Apply creative and critical design thinking to develop holistic architectural solutions that respond to spatial, environmental, cultural, and social challenges at local, national, and global scales.			x		
6	Produce professional drawings, models, technical documentation, and digital/parametric visualizations that effectively communicate architectural proposals at all stages of design.					x
7	Conduct systematic, evidence-based research and apply critical evaluation methods to inform and validate design decisions throughout the design process.					x
8	Integrate interdisciplinary knowledge — spanning art, engineering, ecology, and social sciences — to produce innovative and contextually sensitive design outcomes.					x
9	Demonstrate professional and ethical responsibility, with sensitivity to environmental sustainability, socio-cultural diversity, and the well-being of communities served by architectural practice.				x	
10	Collaborate effectively in interdisciplinary and intercultural teams, demonstrating leadership, communication, and project management competencies in design and professional contexts.				x	
11	Communicate architectural ideas persuasively and clearly in verbal, visual, and written form to professional, academic, client, and public audiences.				x	
12	Engage in continuous self-reflection, lifelong learning, and active contribution to the evolving architectural profession at local, regional, and international levels.					x

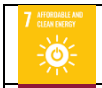
ECTS / STUDENT WORKLOAD				
ACTIVITIES	**NUMBER**	**UNIT**	**HOUR**	**TOTAL (WORKLOAD)**
Course Teaching Hour (X weeks * total course hours)	15	1	3	45

Preliminary Preparation and self- study	1	1	5	5
Mid-Term	1	1	15	15
Quiz				
Assignment				
Project				
Field Study				
Presentation / Seminar				
Studio Practice				
Final Examination/ Final Project/ Dissertation	1	1	30	30
Other: Portfolio	1	1	30	30
TOTAL WORKLOAD				125
TOTAL WORKLOAD /25				5
ECTS				**5**

ETHICAL RULES WITH REGARD TO THE COURSE

Plagiarism Disclaimer
Detected and undetected plagiarism is a serious offense at any time and can have devastating effects on your degree results and future professional life.
Plagiarism is easy to avoid if you ensure that you properly identify and acknowledge your sources and do not copy directly from visual examples, designs, or notes that have themselves been taken word-for-word from your sources.

	SDG 1: No Poverty	
	SDG 2: Zero Hunger	
	SDG 3: Good Health and Well-Being	X
	SDG 4: Quality Education	X
	SDG 5: Gender Equality	X
	SDG 6: Clean Water and Sanitation	

	SDG 7: Affordable and Clean Energy	
	SDG 8: Decent Work and Economic Growth	X
	SDG 9: Industry, Innovation and Infrastructure	X
	SDG 10: Reduced Inequalities	
	SDG 11: Sustainable Cities and Communities	X
	SDG 12: Responsible Consumption and Production	
	SDG 13: Climate Action	
	SDG 14: Life Below Water	
	SDG 15: Life on Land	
	SDG 16:Peace, Justice and Strong Institutions	X
	SDG 17:Partnership for the Goals	

ASSESSMENT DETAILS AND EVALUATION CRITERIA:	
Final grades will be determined based on the course learning activities and the assessment details for the final examination or project, as outlined below, in accordance with the University's Education and Examination Regulations. Students are required to attend at least 70% of the classes. The maximum allowable absenteeism is 30%. Midterm assessment: 30% Portfolio submission: 40% Final assessment: 30%	
PREPARED BY	Sn.instr. Marjan Alikhanzadeh
UPDATED	26.02.2026
APPROVED	