COURSE SYLLABUS						
Course Title	**Course Code**	**Semester**	**Course Hour/Week**		**Credit**	**ECTS**
Studio 3	ARCH 201	3	**Theory** 2	**Practice** 8	6	9
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)	Assoc. Prof. Dr. Ehsan Daneshyar	Email: ehsan.daneshyar@arucad.edu.tr Office: DANIEDE, DA OFF 01
Course Objectives	**Architecture Design Studio III** introduces students to the design of residential buildings. The studio emphasizes key topics such as spatial organization, the relationship between form and structure, integration with landscapes, and the influence of climate on architectural design. Students conduct comprehensive site analyses to strategically situate their projects within real-world contexts, ensuring meaningful connections between residential structures and their surroundings. They also gain practical experience by developing projects tailored to actual client needs, fostering a hands-on understanding of client-centered design. Overall, the studio provides in-depth insight into residential design within architectural education.	

	Students will be able to:	**Teaching Methods**	**Evaluation Methods**
Course Learning Outcomes	**1. Understanding of Residential Design Principles:** Gain a comprehensive understanding of architectural design principles specific to residential buildings.	Direct instruction technique, Studio critique	Mid-term & Final Project Evaluation

	2. Site Analysis and Contextual Integration: Develop skills in conducting thorough site analysis to inform design decisions. Strategically position residential designs within real-world contexts, considering site constraints and opportunities.	Direct instruction technique, Studio critique	Mid-term & Final Project Evaluation
	3. Architecture and climate: The relationship between architecture and local climate, along with the various ways climate can be integrated into architectural design.	Direct instruction technique, Studio critique	Mid-term & Final Project Evaluation
	4. Vertical and Horizontal Access: Ability to design and resolve vertical and horizontal circulation systems in residential buildings.	Direct instruction technique, Studio critique	Mid-term & Final Project Evaluation
	5. Understanding of Building Structure: Ability to integrate structural systems effectively within the proposed design.	Direct instruction technique, Studio critique	Mid-term & Final Project Evaluation
Course Content	The course content of **Architecture Design Studio III** focuses on the comprehensive design of residential buildings. Students explore key architectural principles relevant to residential contexts, including spatial organization, the relationship between form and structure, landscape integration, and climate-responsive design. The curriculum emphasizes site analysis as a basis for informed decision-making and contextualized project development. By addressing the integration of buildings with their surroundings and the dynamic relationship between architecture and environment, the course fosters a holistic understanding of residential design. Through hands-on projects and critical analysis, students acquire the skills and knowledge necessary to engage effectively in residential building design.		

COURSE OUTLINE/SCHEDULE			
Week	**Topic**	**Implementation (theory/practice)**	**Required Reading, Preliminary preparation**
1	**Introduction to the housing studio.** Housing typology:	T-P	

	freestanding houses. Home-office concept and precedents. Housing evolution		
2	**Introduction to site analysis. Client definition. Architectural model making.** Field trip, research on the site, data collection through sketching, photography and measuring.	T-P	**Site visit, understanding the site, sketching and photographing on the site**
3	**Introduction to concept, form finding and pattern definition.** Site analysis: developing site plan, site sections & sketches.	T-P	**Understanding the site:** **Site plan, site sections, sketches**
4	Concept development, form analysis, pattern definitions. Analyzing relevant design precedents. Developing the initial design concept and relevant patterns.	T-P	**Concept development, form analysis, pattern definitions.**
5	Develop the first sketch model & first sketch plan. Finalizing the concept and relevant patterns.	T-P	**Develop the first sketch model and first sketch plan.**
6	Improving the sketch model, initial plan, and site analysis. **Introduction to architectural standards**	T-P	**Improving the sketch model, initial plan and site analysis.**
7	Pre-midterm presentation: Reviewing the context, environment & the built elements. Reviewing the sketches, architectural drawings & the sketch model. **(MID-TERM REVIEW)**	T	**Improving sketches, architectural drawings and the sketch model.**
8	After Mid-term group/individual discussions	T-P	

9	After Mid-term group/individual discussions	T-P	
10	**Climate consideration** (applying passive heating and passive cooling within the design project)	T-P	**Improving the project by considering the climate**
11	**Climate consideration** (applying passive heating and passive cooling within the design project)	T-P	**Improving the project by considering the climate**
12	**Envelope design principles.**	T-P	
13	**Landscape design principles.**	T-P	**Initial landscape drawings**
14	**Landscape design principles.**	T-P	**Initial landscape drawings**
15	**Pre-final review:** **Review of architectural drawings (plans, sections & elevations), architectural models.**	T-P	
16	Final Exam Week		

Required Course Material(s) / Reading(s)/ Text Book(s)	**Housing & Architectural Design:** Pfeifer G., Brauneck P. (2015). *Residential buildings*. Basel, Switzerland: Birkhäuser Verlag. **CALL NUMBER: NA7115 .P44 2015** Friedman A. (2017). *Innovative houses*. London: Laurence King Publishing. **CALL NUMBER: TH4860 .F75 2017** Ching F. D. K., . (2020). *Building Construction Illustrated*. New Jersey: Ching Yayınları. **CALL NUMBER: TH146.B85 2020** Ching F. D. K., . (2015). *Architecture Form, Space, & Order*. Hoboken, New Jersey: John Wiley & Sons. **CALL NUMBER: REF NA2760 .C46 2015** Ching D. F., Barry Onouye & Douglas Zuberbuhler. (2014). *Building Structures Illustrated*. Hoboken, New Jersey: Wiley. **CALL NUMBER: REF TA 658.C49 2014** **Detailing:** Kilmer W. O., Kilmer R. (2016). *Construction Drawings and Details*. Hoboken, New Jersey: Wiley. **CALL NUMBER: TH2031.K556 2016** Phillips, Yamashita (2014). *Detail in contemporary residential architecture 2*. London: Laurence King Publishing. **CALL NUMBER: NA2840 .P45 2014** Allen E. a. R. P. (2016). *Architectural Detailing*. Hoboken, New Jersey: Wiley. **CALL NUMBER: REF NA2840 .A454 2016** Nussbaumer L. L. (2018). *Inclusive Design*. New York: Fairchild. **CALL NUMBER: REF NA2545.A1 N87 2018** **Environmental Design:**

	Bergman D. (2012). *Sustainable Design*. New York: Princeton Architectural Press. **CALL NUMBER: REF NK1520 .B48 2012**
Recommended Course Material(s)/ Reading(s) /Other	

ASSESSMENT		
Learning Activities	**NUMBER**	**WEIGHT in %**
Mid-Term	1	40
Quiz	-	-
Assignment	-	-
Portfolio	-	-
Project	-	-
Field Study	-	-
Presentation / Seminar	-	-
Studio Practice	-	-
Other	-	-
Contribution of Final Examination/Final Project/ Dissertation to the Final Grade	1	60
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	10	150
Preliminary Preparation and self- study	15	1	2	30
Mid-Term	1	1	20	20
Quiz	-	-	-	-
Assignment	-	-	-	-
Portfolio	-	-	-	-
Project	-	-	-	-
Field Study	-	-	-	-
Presentation / Seminar	-	-	-	-
Studio Practice	-	-	-	-
Final Examination/ Final Project/ Dissertation	1	1	25	25
Other	-	-	-	-
TOTAL WORKLOAD				**225**
TOTAL WORKLOAD / 25				9
ECTS				**9**

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	
	SDG 4: Quality Education	X

	SDG 5: Gender Equality	
	SDG 6: Clean Water and Sanitation	
	SDG 7: Affordable and Clean Energy	
	SDG 8: Decent Work and Economic Growth	
	SDG 9: Industry, Innovation and Infrastructure	
	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	
	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%. **Mid-term project (40%) and Final project (60%)**	
PREPARED BY	Assoc. Prof. Dr. Ehsan Daneshyar
UPDATED	15.09.24
APPROVED	