COURSE SYLLABUS						
Course Title	**Course Code**	**Semester**	**Course Hour/Week**		**Credit**	**ECTS**
Detailing Design Thinking	DSGN 106	2	**Theory** 2	**Practice** 2	3	3
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)	Assist. Prof. Dr. Olgica Grcheva	E-mail : olgica.grcheva@arucad.edu.tr Office : TI - OFF20
Course Objectives	The course “Detailing Design Thinking” focuses on the exploration of building materials and various building elements, emphasizing their versatile applications within interior and exterior spaces. Emphasis is placed on the creative integration of building materials and elements to solve complex design problems, cultivating a strategic approach that merges architectural vision with practical implementation. Through this course, participants learn to conceptualize and propose innovative design ideas by specifically considering interior and exterior architectural details, fostering a comprehensive understanding of how these elements contribute to the overall aesthetics and functionality of built environments.	
Course Learning Outcomes	**Students will be able to:**	**Teaching Methods** / **Evaluation Methods**
	Remembering: Identify and describe the properties, performance characteristics, and applications of common building materials and architectural elements used in interior and exterior construction.	Demonstrations, Discussions and Visual Lectures: Introduction to Detailing and Drawing Standards / Class discussions, weekly classwork and homework assignments

	Understanding: Architectural detailing solutions effectively through scaled drawings, diagrams, and oral presentations.	Emphasis on process-oriented exercises and continuous feedback	Class discussions, weekly classwork and homework assignments
	Applying: Appropriate detailing strategies to resolve design problems, integrating material selection, structural logic, and spatial requirements.	Weekly Practice, Assignment documentation, and technical drawing	In-class composition drawing and classwork and homework assignments
	Analyzing: Architectural details in terms of functionality, constructability, aesthetics, and environmental performance.	Encourage reflective learning and collaborative improvement	Peer critiques, instructor feedback sessions
	Evaluating: Design decisions with consideration for sustainability principles, material efficiency, and environmental impact.	One-on-one consultations; Individual progress guidance and targeted feedback	Midterm portfolio submission Final portfolio submission
	Creating: Coherent and innovative design proposals that demonstrate the relationship between architectural conceptual drawing and technical resolution.	Workshop, focusing on proportion, perspective, and visual hierarchy	Midterm portfolio submission Final portfolio submission
Course Content	Upon successful completion of this module, students will develop an understanding of building materials and architectural elements, including their properties and applications. They will gain the ability to apply architectural details to solve functional and aesthetic design problems while strengthening their design thinking and creative problem-solving skills. Students will learn to analyze and select appropriate details, develop innovative and feasible design proposals, and communicate their ideas effectively through drawings and presentations. Additionally, they will be introduced to sustainability principles and their role in material selection and architectural detailing. The following topics are covered in this course: 1. Design Elements (exterior and interior) 2. Building details and systems 3. Structure and construction 4. Sustainable design thinking		

	5. Detailed design for conceptualization.

COURSE OUTLINE/SCHEDULE			
Week	**Topic**	**Implementation (theory/ practice)**	**Required Reading, Preliminary preparation**
1	Introduction to the course and course syllabus.	T	Preparation is not required.
2	Discussion on Detailing and Drawing Standards. Understanding scale, proportion, and detail hierarchy Function, performance, and components of common window types (fixed, casement, sliding, pivot) **Assignment 1:** Fixed window (stone, brick masonry wall – 1:10 scale) presented in plan, section, and elevation	T/P	Preparation is not required.
3	Function, performance, and components of common window types (fixed, casement, sliding, pivot) **Assignment 2:** Fixed + casement window (concrete wall – 1:10 scale) presented in plan, section and elevation Common vertical and horizontal shading elements on windows	T/P	Preparation is required.
4	Function, types, performance, and components of door systems (frame, glazing, sill, structural integration) **Assignment 3:** Various door types detail drawings in plan, section, and elevation - 1:10 scale	T/P	Preparation is required.
5	Relationship between traditional materials, details and overall design details presentation **Assignment 4:** Small-scale timber cabin plan, section and elevation 1:50 scale	T/P	Preparation is required.
6	Review session	T/P	Preparation is required.
7	Midterm Portfolio development	T/P	Preparation is required.
8	Midterm Portfolio submission	T/P	Preparation is required.

9	Discussions on submissions Introduction to Stair Design: Principles, Standards, and Types. Stair terminology (riser, tread, landing, nosing, structure) **Assignment 5**: One-way staircase with materials drawn in plan section, detail, and isometric scale 1:20 / 1:10	T/P	Preparation is required.
10	Introduction to Stair Design: Principles, Standards, and Types. Stair terminology (riser, tread, landing, nosing, structure) Continuation of Assignment 5	T/P	Preparation is required.
11	Relationship between stairs geometry and circulation. Landing and L-Shaped Stair Detail Drawing **Assignment 6**: Landing on one way / L-shape staircase with materials drawn in plan section, detail and isometry scale 1:20 / 1:10	T/P	Preparation is required.
12	Relationship between stairs geometry and circulation. Landing and L-Shaped Stair Detail Drawing Continuation of Assignment 6	T/P	Preparation is required.
13	Complex geometry and spatial experience in stair structure, materials and spatial integration. **Assignment 7**: Reinforced concrete core U-shape Stair with materials drawn in plan section, detail and isometry scale 1:20 / 1:10	T/P	Preparation is required.
14	Complex geometry and spatial experience in stair structure, materials and spatial integration. Continuation of Assignment 7	T/P	Preparation is required.
15	Review session	T/P	Preparation is required.
16	Final portfolio preparation	T/P	Preparation is required.
17	**FINAL EXAMS**		

Required Course Material(s) / Reading(s)/ Text Book(s)	Ching, F. D. K., & Binggeli, C. (2018). Interior Design Illustrated (3rd ed.). John Wiley & Sons, **Call number: NA2850 .C45 2018** Ching F. D. K., . (1996). Architectural Graphics. Hoboken, N.J: John Wiley & Sons Inc. **Call number: NA2700.C45.A734 1996** Francis D.K. (2015). Architecture: Form, Space & Order (Fourth Edition). Wiley. **Call number: REF NA2760 .C46 2015**

	Ching F. D. K., Ching F. D. & Eckler J. F. (2013). Introduction to Architecture. Hoboken, New Jersey: Wiley. **Call number: NA2520.C48 2013**
Recommended Course Material(s)/ Reading(s) /Other	Brookes, A. J., Meijs, M. (2008). Cladding of buildings. New York: Taylor & Francis. Boswell, C. K. (2013). Exterior building enclosures: Design process and composition for innovative facades. New Jersey: Wiley. Herzog, T. (2004). Façade construction manual. Boston: Birkhauser. Harvey, K. W. (2009). Fundamental building materials. Florida: Universal publishers. Schittich, C. (2016). Best of details: materials and finishes. Herausgeber

ASSESSMENT		
Learning Activities	**NUMBER**	**WEIGHT in %**
Mid-Term	1	40
Quiz		
Assignment		
Project		
Field Study		
Presentation / Seminar		
Studio Practice		
Other		
Contribution of Final Examination/Final Project/ Dissertation to the Final Grade	1	60
TOTAL		100

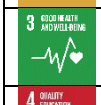
CONTRIBUTION OF COURSE LEARNING OUTCOMES TO PROGRAMME LEARNING OUTCOMES							
No	**PROGRAMME LEARNING OUTCOMES**	Level of Contribution (1- lowest/ 5- highest)					
		1	2	3	4	5	
1	Understand architectural history, theory, and cultural heritage, including the relationship between local/vernacular traditions 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)	16	1	4	64
Preliminary Preparation and self- study	16	1	1	16

Mid-Term	1	1	4	4
Quiz				
Assignment				
Project				
Field Study				
Presentation / Seminar				
Studio Practice				
Final Examination/ Final Project/ Dissertation	1	1	5	5
Other				
TOTAL WORKLOAD				89
TOTAL WORKLOAD				3.56
ECTS				**3**

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	X
	SDG 10: Reduced Inequalities	X
	SDG 11: Sustainable Cities and Communities	X
	SDG 12: Responsible Consumption and Production	X
	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%. Midterm Submission: 40% Final Submission: 60%	
PREPARED BY	Asst. Prof. Dr. Olgica Grcheva
UPDATED	26.02.2026
APPROVED	