COURSE SYLLABUS						
Course Title	**Course Code**	**Semester**	**Course Hour/Week**		**Credit**	**ECTS**
Detailing Design Thinking	INAD 110	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 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, Disscussions and Visual Lectures: Introduction to Detailing and Drawing Standards / Class discussions, weekly classwork’s and homeworks’s 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’s and homeworks’s 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's and homeworks's 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**	**Required Reading, Preliminary preparation**

		(theory/ practice)	
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 isometry 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. (2015). *Architectural graphics* (6th ed.). John Wiley & Sons. **Call number:** NA2700.C45.A734 1996 Ching, F. D. K. (2014). *Architecture: Form, space & order* (4th ed.). John Wiley & Sons. **Call number:** REF NA2760 .C46 2015 Ching, F. D. K., & Eckler, J. F. (2013). *Introduction to architecture*. John Wiley & Sons. **Call number:** NA2520.C48 2013
Recommended Course Material(s)/ Reading(s) /Other	Brookes, A. J., & Meijs, M. (2008). *Cladding of buildings*. Taylor & Francis. Boswell, C. K. (2013). *Exterior building enclosures: Design process and composition for innovative facades*. Wiley. Herzog, T. (2004). *Façade construction manual*. Birkhäuser. Harvey, K. W. (2009). *Fundamental building materials*. Universal Publishers. Schittich, C. (2016). *Best of details: Materials and finishes*. Edition Detail.

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
KNOWLEDGE *Understanding and knowing — theoretical, historical, and conceptual foundations*						
1	Demonstrate comprehensive knowledge of visual and spatial design language, encompassing fundamental principles of form, function, space, material, ergonomics, ecology, and society, as well as technical knowledge, in the production of human-centered interior environments.			x		
2	Critically engage the history of interior architecture, art, and design, drawing on research methodologies to inform culturally sensitive and contextually grounded design practice.	x				
3	Understand interior architecture as a holistic and interdisciplinary profession, articulating the relationship between spatial design, architecture, art, and environmental stewardship.					x
4	Understanding of theoretical, historical, cultural, ecological, and universal accessibility dimensions of interior design to inform responsible, inclusive, and environmentally conscious spatial decision-making.				x	
SKILLS *Doing and making — technical, creative, and methodological abilities*						
5	Develop and communicate design concepts through diverse visualization tools — including hand drawing, and digital modeling — demonstrating competency in contemporary representational technologies for professional design communication.				x	
6	Produce technically proficient sketches, technical drawings, and documentation according to professional standards, applying both analog and digital tools in spatial problem-solving.					x
7	Apply systematic, research-based critical thinking in design processes and problem-solving, addressing contemporary spatial and ergonomic demands with research-driven design strategies.				x	
8	Produce design models, cost estimations, and technical documentation for project realization, incorporating sustainable design strategies and adaptive reuse methodologies for heritage and contemporary environments.			x		
COMPETENCIES *Professional behavior and attitude — ethical, creative, and lifelong practice*						
9	Articulate a personal creative vision and present design proposals verbally, visually, and textually across a range of media, upholding the high standards of creative excellence, considering legal and ethical practices.					x
10	Demonstrate commitment to continuous self-development, lifelong learning, and professional ethics, contributing to the cultural and intellectual enrichment of local, regional, and global communities.			x		
11	Demonstrate proficiency in innovative design tools and emerging technologies, integrating traditional craftsmanship with contemporary digital methods to expand the boundaries of interior spatial design.			x		
12	Collaborate effectively in interdisciplinary and intercultural teams, demonstrating leadership, communication, and project management competencies in design and professional contexts.			x		

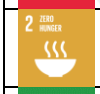
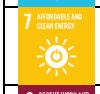
ECTS / STUDENT WORKLOAD				
ACTIVITIES	**NUMBER**	**UNIT**	**HOUR**	**TOTAL (WORKLOAD)**
Course Teaching Hour (X weeks * total course hours)	16	1	4	64
Preliminary Preparation and self- study	16	1	1	16
Mid-Term	1	1	3	3
Quiz				
Assignment				
Project				
Field Study				
Presentation / Seminar				
Studio Practice				
Final Examination/ Final Project/ Dissertation	1	1	4	4
Other				
TOTAL WORKLOAD				87
TOTAL WORKLOAD / 85/25				3.48
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 40%** **Final 60%**	
PREPARED BY	Asst. Prof. Dr. Olgica Grcheva
UPDATED	02.04.2026
APPROVED	