COURSE SYLLABUS						
Course Title	**Course Code**	**Semester**	**Course Hour/Week**		**Credit**	**ECTS**
Fundamentals of Sketching	INDD 312	1	**Theory** 2	**Practice** 2	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)	Asst. Prof. Dr. Ehsan Daneshyar	**E-mail:** Ehsan.daneshyar@arucad.edu.tr **Office:** DANIEDE, DA OFF 01
Course Objectives	The aim of this course is to develop students' sketching skills as a tool for observing, analyzing, and communicating the form, function, and design of domestic and industrial products. Students will practice a range of sketching techniques and media to record and interpret real objects, building both technical drawing ability and the capacity to translate observation into design communication.	

Course Learning Outcomes	**Students will able to:**	**Teaching Methods**	**Evaluation Methods**
	Develop sketching techniques	Direct instruction + step-by-step demonstration (instructor sketches live, students replicate)	Midterm project/Assignments/Final project
	To familiarize the student with sketching as a powerful medium to study and analyze	Direct instruction + step-by-step demonstration (instructor sketches	Midterm project/Assignments/Final project

	domestic and industrial objects/prototypes.	live, students replicate)	
	To familiarize the student with various sketching tools and media.	Direct instruction + step-by-step demonstration (instructor sketches live, students replicate)	Midterm project/Assignments/Final project
	Create sketches of various industrial objects which demonstrate the capacity to perceive, and comprehend the selected industrial objects.	Direct instruction + step-by-step demonstration (instructor sketches live, students replicate)	Midterm project/Assignments/Final project
	To enhance the ability of the student to communicate design ideas by using sketching as a medium.	Direct instruction + step-by-step demonstration (instructor sketches live, students replicate)	Midterm project/Assignments/Final project
Course Content	The aim of this course is to familiarize students with the fundamentals of reading and analyzing domestic and industrial products by using sketching as a medium. This course emphasizes establishing a relationship between the observer and industrial products. Through the medium of sketching, students learn the process of observing and recording industrial products. Students are encouraged to explore various media. Course evaluation is based on the sketches that students provide during the practical hours throughout the semester.		

COURSE OUTLINE/SCHEDULE			
Week	**Topic**	**Implementation (theory/practice)**	**Required Reading, Preliminary preparation**
1	Introduction to drawing/sketching tools/sketch journal/Keeping a sketchbook	T-P	See the required books.
2	Introduction to line-thickness and cross-hatching technique/Classwork: sketching	T-P	See the required books.

	chair, table (industrial and product design sketching)		
3	Perspective (introduction) classwork: sketching sofa and furniture (industrial and product design sketching)	T-P	See the required books.
4	Classwork: sketching spoon, fork, knife and kitchen items (industrial and product design sketching)	T-P	See the required books.
5	Classwork: sketching hair drier and kettle (industrial and product design sketching)	T-P	See the required books.-
6	Classwork: sketching hats and bags (industrial and product design sketching)	T-P	See the required books.
7	Sketching practice (industrial and product design sketching)	T-P	See the required books.
8	**Mid-Term week**		
9	Sketching practice (industrial and product design sketching)	T-P	See the required books.
10	Sketching practice (industrial and product design sketching)	T-P	See the required books.
11	Sketching practice (industrial and product design sketching)	T-P	See the required books.
12	Sketching practice (industrial and product design sketching)	T-P	See the required books.
13	Sketching practice (industrial and product design sketching)	T-P	See the required books.
14	**Final submission**	T-P	

Required Course Material(s) / Reading(s)/ Text Book(s)	Henry, K. (2013). *Drawing for product designers*. London: Laurence King Publishing. **ARUCAD CALL NUMBER: TS171.4 .H46 2013** Eissen, K., & Steur, R. (2009). *Sketching: Drawing techniques for product designers*. BIS Publishers. **ARUCAD CALL NUMBER: NC730 .E47 2012** Mat Rani, R. (n.d.). *Sketching basics: One-point perspective*. J. Cheng & L. M. Kok (Eds.), with R. Othman & A. A. M. Jaladin (Co-authors). **ARUCAD CALL NUMBER: NC750 .R197 2012** Eissen, K., & Steur, R. (2011). *Sketching: Product design presentation*. BIS Publishers. **ARUCAD CALL NUMBER: NC730.E37 2014** Paricio, J. (2015). *Perspective sketching: Freehand and digital drawing techniques for artists & designers*. Rockport Publishers. **ARUCAD CALL NUMBER: REF NC750.P37 2015** Eissen, K., & Steur, R. (2014). *Sketching: The basics*. BIS Publishers. **ARUCAD CALL NUMBER: NC730 .E299 2013**
Recommended Course Material(s)/ Reading(s) /Other	

ASSESSMENT		
Learning Activities	**NUMBER**	**WEIGHT in %**
Mid-Term	1	20
Assignment	2	40
Project	-	-
Presentation / Seminar	-	-
Studio Practice	-	-
Other	-	-
Contribution of Final Examination/Final Project/ Dissertation to the Final Grade	1	40
TOTAL		100

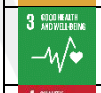
CONTRIBUTION OF COURSE LEARNING OUTCOMES TO PROGRAMME LEARNING OUTCOMES		
No	**PROGRAMME LEARNING OUTCOMES**	Level of Contribution (1-lowest/ 5-highest)

		1	2	3	4	5
1	Understand knowledge of industrial design principles, design methodologies, history, aesthetics, form & function and product development processes.	X				
2	Explain the properties of materials, manufacturing technologies, and production methods used in industrial product design	X				
3	Understand ergonomics, and user-centered design concepts in product development	X				
4	Understand sustainability principles, environmental impacts, and life-cycle considerations in industrial design	X				
5	Analyze design problems, user needs, and market requirements to develop appropriate product design solutions.					
6	Generate creative product concepts using sketching, ideation techniques, and visual exploration methods.					X
7	Develop product designs using digital tools, 3D modeling, and rendering software	X				
8	Develop prototypes or models to evaluate product functionality, usability, and aesthetics.		X			
9	Communicate design ideas effectively through sketches, technical drawings, models, and professional presentations.					X
10	Work effectively in multidisciplinary teams during product design and development processes.	X				
11	Manage design projects considering production constraints, market needs, and economic feasibility.	X				
12	Demonstrate professional responsibility, ethical awareness, and commitment to sustainable design practices.	X				

ECTS / STUDENT WORKLOAD				
ACTIVITIES	**NUMBER**	**UNIT**	**HOUR**	**TOTAL (WORKLOAD)**
Course Teaching Hour (X weeks * total course hours)	14	1	4	56
Preliminary Preparation and self- study	14	1	4	56
Mid-Term	1	1	4	4

Assignment	1	2	5	10
Final Examination/ Final Project/ Dissertation	1	1	4	4
Other				
TOTAL WORKLOAD				130
TOTAL WORKLOAD / 25				5.2
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	
	SDG 4: Quality Education	
	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 exam (20%), two assignments (40) and final exam (40%)** marks will be combined to give an overall assessment mark for this course.	
PREPARED BY	Asst. Prof. Dr. Ehsan Daneshyar
UPDATED	15.09.23
APPROVED	