COURSE SYLLABUS						
Course Title	**Course Code**	**Semester**	**Course Hour/Week**		**Credit**	**ECTS**
Introduction to Industrial Design	INDD107	1	**Theory** 3	**Practice** 0	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)	Asst. Prof. Dr. Salar Salah Muhy Al-Din	E-mail:salar.aldin@arucad.edu.tr Office: TI- OFF 07
Course Objectives	To inform students about Industrial Design topics: product, service, and system design, to analyze design factors during and after the design process, and to experience creative problem solving, sketching, modeling, user scenario, and presentation techniques that constitute the product, service, and system design process by carrying out introductory-level projects.	

Course Learning Outcomes	**Students To Do:**	**Teaching Methods**	**Evaluation Methods**
	Identify and define key subjects, application methods, and content within the industrial design discipline, recalling foundational elements such as product, service, and system design.	Lectures, Assigned readings.	Midterm Exam, Project submission.
	Explain and summarize theoretical knowledge about design methods, interpreting their role in developing design skills.	Assigned readings, Interactive presentation	Midterm Exam, Project submission.

	Demonstrate and apply visual, verbal, and intellectual techniques used in the design process at an introductory level.	Drawing, Sketching, and Presentation Practice.	Midterm Exam, Project Evaluation.
	Analyze defined design problems, comparing factors that guide the design process, and classify potential solutions.	Case study analysis, Problem-solving sessions.	Midterm Exam, Project Evaluation.
	Develop and construct ideas for functional improvements, producing sketches, models, and user scenarios in design projects.	Model-building exercises, analysis tasks, and Personal development exercises.	Final Project Submission.
	Create and present design processes and results visually and verbally, synthesizing information through discussions and media.	Model-building, Presentation, Media production labs.	Final Project Submission.
Course Content	It includes determining the factors that guide the design during the design process and project planning phase, and providing information on design theories and methods.		

COURSE OUTLINE/SCHEDULE			
Week	**Topic**	**Implementation (theory/practice)**	**Required Reading, Preliminary preparation**
1	Course Description – Introduction.	T	See the required books.

2	Product Analysis.	T	See the required books.
3	Introduction to drawing techniques.	T	See the required books.
4	Research: Press release.	T	See the required books.
5	Project 1: Functional improvement + Research: Press release.	T	See the required books.
6	Project 1: Functional improvement + Research: Education.	T	See the required books.
7	Project 1: Functional improvement + Research: Education	T	See the required books.
8	Project 1: Functional improvement + Research: Education and Midterm.	T	See the required books.
9	Project 1 Finalization.	T	See the required books.
10	Project 2: Re-Functioning + Research: Competition.	T	See the required books.
11	Project 2: Re-Functioning + Research: Competition.	T	See the required books.
12	Project 2: Repurposing + Research: Event/Community.	T	See the required books.
13	Project 2: Repurposing + Research: Event/Community.	T	See the required books.

14	Project 2: Re-Functioning + Research: Technology.	T	See the required books.
15	Project presentations.	T	See the required books.
16	**FINAL EXAM**		

Required Course Material(s) / Reading(s)/ Text Book(s)	• Fiell, C., & Fiell, P. (2000). *Industrial design A–Z. Taschen*. Call number: TS171 .F54 2000 • Zec, P. (2018). *The form of success: Design as a corporate strategy*. Red Dot Edition. Call number: TS171 .Z43 2018
Recommended Course Material(s)/ Reading(s) /Other	• Koch, C. H. W. (2022). *The future of industrial design and its role in Industry 4.0* [Doctoral dissertation, Swinburne University of Technology]. ResearchGate. DOI:10.13140/RG.2.2.15506.32969

ASSESSMENT		
Learning Activities	**NUMBER**	**WEIGHT in %**
Mid-Term Project	1	30
Quiz		
Assignment	1	20
Project		
Field Study		
Presentation / Seminar		
Studio Practice		
Other		

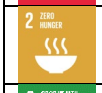
Contribution of Final Examination/Final Project/ Dissertation to the Final Grade	1	50
TOTAL	3	100

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.				x	
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)	15	1	3	45
Mid-Term Preliminary Preparation and self-study	1	1	10	10
Project	1	1	10	10
Quiz				
Assignment				
Final Examination/ Final Project/ Dissertation	1	1	14	14
TOTAL WORKLOAD				79
TOTAL WORKLOAD / 25				3,16
ECTS				3

ETHICAL RULES ABOUT THE COURSE
Plagiarism Disclaimer Detected and undetected plagiarism is a serious offense at any time and it could have devastating effects on your degree result and future professional lives. Plagiarism is easy to avoid if you make sure to identify and acknowledge your sources thoroughly and do not copy directly from visual examples, designs, or notes that have in turn 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	
	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 according to the Course Learning Activities and Final Examination/ Project/ Dissertation Assessment Details as below, and comply with the Education and Examination Regulation set by the University.

Students are required to attend at least 70% of the classes. The maximum allowable absenteeism is 30%.

Assignment: 20%
Midterm: 30%
Final: 50%

PREPARED BY	Asst. Prof. Dr. Burcin Saltik, Asst. Prof. Dr. Salar Salah Muhy Al-Din.
UPDATED	October 2024, October 2025.
APPROVED	