PART I (Senate Approval)

Offering School	Antalya Bilim University-Faculty of Fine Arts and Architecture					
Offering Department	Interior Architecture and Environmental Design					
Program(s) Offered to	Interior Architecture & Environmental Design					Elective
Course Code	IAED 3153					
Course Name	Industrial Product Design					
Language of Instruction	English					
Type of Course	Theory					
Level of Course	Undergraduate					
Hours per Week	Lecture: 3	Laboratory:	Recitation: 3	Practical:	Studio:	Other:
ECTS Credit	3					
Grading Mode	Letter Grade					
Pre-requisites						
Co-requisites	None					
Registration Restriction						
Educational Objective	To provide knowledge about the industrial product design concept and its relations with the customer To comprehend design criteria for industrial product design To provide information about the types of industrial product design Evaluating the visual and functional relations of industrial products					
Course Description	This course covers specific technical, ergonomic, and functional requirements in industrial product design. Both new designs and innovations are emphasized. The focus of the design components is on color, texture, ergonomic and cultural issues. Students are encouraged to draw different design options and obtain different design solutions from a comparative perspective. This course provides a general groundwork for best practices and gainful employment within the industrial design industry. Techniques in brainstorming, design development, presentation, and problem-solving are discussed in detail. Students primarily observe various guest designers and experts while participating in some design work of their own.					

Learning Outcomes	**LO1**	The course deals with the practice of creative and innovative industrial product design.
	LO2	Use an investigative approach to design
	LO3	Compose concepts, scenarios, and user profiles with lifestyle and consistent design ideas, through techniques
	LO4	Uses professional basic techniques of surveying and examine the contex
	LO5	Apply conceptual approach to the design

PART II (Faculty Board Approval)

		Program Outcomes	**LO1**	**LO2**	**LO3**	**LO4**	**LO5**
Basic Outcomes (University-wide)	**PO1**	**Ability** to communicate effectively and write and present a report in Turkish and English.					
	PO2	**Ability** to work individually, and in intra-disciplinary and multi-disciplinary teams.					
	PO3	**Recognition** of the need for life-long learning and **ability** to access information , follow developments in science and technology, and continually reinvent oneself.					
	PO4	**Knowledge** of project management, risk management, innovation and change management, entrepreneurship, and sustainable development.					
	PO5	**Awareness** of sectors and **ability** to prepare a business plan.					
	PO6	**Understanding** of professional and ethical responsibility and **demonstrating** ethical behavior.					
Faculty Specific Outcomes	**PO7**	Gain the ability of conceptualizing, applying, analyzing, synthesizing and evaluating information effectively (Critical Thinking).					
	PO8	Produce innovative ideas and products with creativity (Creativeness).					
	PO9	Gain the ability of leadership, entrepreneurship and self-leadership skills (Leadership and Entrepreneurship).					
	PO10	Care about the ethical values and principles; behave in accordance with these in professional and social life (Ethical Behavior).					
	PO11	Understand, define and reach the information that they need; use information effectively and share it with others (Information Literacy).					

	PO12	Use information effectively and communication technologies while learning, and can share their knowledge and experience with others using technology and visual means (Information and Communication Technology Literacy).						
Discipline Specific Outcomes (program)	**PO13**	Global Context: To have a global perspective and consider social, cultural, economic, and ecological contexts in all areas of work.						
	PO14	Collaboration: To have the ability to collaborate with disciplines that the field interacts with.						
	PO15	Business Practice and Professionalism: To understand the principles, processes, and responsibilities that define the value of the profession to society.						
	PO16	Human-Centered Design: To integrate physical, social, and cultural dimensions of the built environment, considering human experience and behavior in the design process through analysis.						
	PO17	Design Process: To creatively solve a design problem using all aspects of the design process.						
	PO18	Communication: To have the ability to express and present ideas and thoughts effectively through verbal, written, and visual means, including in English, throughout the design and implementation						
	PO19	History: To have knowledge of the history of the profession and make design decisions sensitive to cultural heritage and						
	PO20	Design Elements and Principles: To be proficient in adopting design elements and principles in design approaches.						
	PO21	Light and Color: To apply principles and theories related to light and color in terms of environmental impact and human comfort effectively.						
	PO22	Products and Materials: To have knowledge of production, assembly, and maintenance requirements of interior fixtures, materials, and accessories, and to gain the ability to make selections and applications based on aesthetic, ergonomic, safety, and cost criteria.						
	PO23	Environmental Systems and Human Comfort: To apply principles related to environmental impact and human comfort, including acoustics, thermal comfort, indoor air quality, plumbing systems, and waste management.						
	PO24	Construction/Building/Structure: To understand the relationship between interior construction and its connection to basic building construction and systems.						
	PO25	Regulations and Guidelines: To be proficient in applying laws, regulations, and standards related to professional practice, including sustainability, fire safety, construction, materials, accessibility, intellectual and industrial property rights, and incorporating them into the design process.						

PART III (Department Board Approval)

	Subject	**Week**	**Subject Explanation**	**LO1**	**LO2**	**LO3**	**LO4**	**LO5**
Course Subjects, Contribution of Course Subjects to Learning Outcomes, and Methods for Assessing Learning of Course Subjects	**S1**	1	Course introduction, syllabus overview					
	S2	2	*Industrial product design definition and criteria-Function, utility, meaning *Types of industrial products					
	S3	3	*Human factor in product design, user approaches in product development process *Investigative approach for corporative identity for product design Critiques for design and drawings Classwork: Proposals for design, sketches-critiques					
	S4	4	*Factors that industrial design focuses on in the development process *Design process-from concept to production Student presentations and discussions					
	S5	5	Aesthetic and functionality perception in product design Critiques					
	S6	6	Studio study Individual critiques for project development					

	S7	7	*Review of industrial designs, critiques on project					
	S8	8	Midterm					
	S9	9	Manufacturing Strategies in Industrial Design Critiques for midterm review, design revisions					
	S10	10	*Material,Production,Technology relations * Market and Product Relationship					
	S11	11	The concept of sustainability in industrial product, maintenance and operation.					
	S12	12	What is Industrial Design Registration?					
	S13	13	Critiques on project					
	S14	14	Critiques on project-final preparations					
	S15	15	Desk Critiques					

Assessment Methods, Weight in Course Grade, Implementation and Make-Up Rules	**No**	**Type**	**Weight**	**Implementation Rule**	**Make-Up Rule**
	A1	**Final Submission**	50%		
	A2	**Midterm Submission**	30%		
	A3	**Presentations/Assignments/ Project development**	20%		
	A4				
	TOTAL				**100%**

Evidence of Achievement of Learning Outcomes	Students will demonstrate learning outcomes through weekly homework, in-class assignments, Midterm exams and Final exam.

Method for Determining Letter Grade

Upon successful completion of all assessment methods, the total scores will be averaged and converted into a final letter grade using the following percentages and grading criteria.

ASSESSMENT METHOD	**EFFECT ON GRADING**	**MARK**	**GRADE**	**VALUE**	**MARK**	**GRADE**	**VALUE**
Assignments	20%	A+	-		C+	60-64	2,30
Midterm	30%	A	95-100	4.00	C	55-59	2.00
Final Exam	50%	A-	85-94	3,7	C-	50-54	1,70
Final Submission		B+	80-84	3,3	D+	45-49	1,30
		B	75-79	3.00	D	40-44	1,00
		B-	65-74	2,7	F	0-39	0.00

	No	**Method**	**Explanation**	**Hours**
Teaching Methods, Student Work Load	**Öğretim elemanı tarafından uygulanan süre**			
	1	**Course Teaching Hours**	**Lectures and practices**	14x2=28 hr
	Time expected to be allocated by student			
	2	**Assignments**		2x3=6 hr
	3	**Midterm Preparations**		1x10=10 hr
	4	**Midterm Submission**		1x3=3 hr
	5	**Project Development**		14x1=14 hr
	6	**Final Preparations**		1x11=11 hr
	7	**Final Submission**		1x3=3 hr
	TOTAL			75 hrs.

IV. PART

Instructor	**Name**	Lec. Elif Bakkaloğlu
	E-mail	elif.bakkaloglu@antalya.edu.tr
	Phone Number	
	Office Number	.
	Office Hours	
	Mandatory	

Course Materials	**Recommended**	1. The Design of Everyday Things by Donald Norman 2. Manufacturing Processes for Design Professionals by Rob Thompson 3. Product Design and Development by Karl Ulrich, Steven D. Eppinger 4. Sketching: Drawing Techniques for Product Designers by Koos Eissen, Roselien Steur 5. The Art of Innovation: Lessons in Creativity from IDEO, America's Leading by Jonathan Littman 6. The Design Thinking Playbook: Mindful Digital Transformation of Teams by Michael Lewrick
Other	**Scholastic Honesty**	Violations of scholastic honesty include, but are not limited to cheating, plagiarizing, fabricating information or citations, facilitating acts of dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students. Any for of scholastic dishonesty is a serious academic violation and will result in a disciplinary action.
	Students with Disabilities	Reasonable accommodations will be made for students with verifiable disabilities.
	Safety Issues	
	Flexibility	Circumstances may arise during the course that prevents the instructor from fulfilling each and every component of this syllabus; therefore, the syllabus is subject to change. Students will be notified prior to any changes.