General	Subject name, code and number	DSN 335 Product Design 3KU (6 ECTS)	
Information	mation of credits		
	Department	Architecture and Design Department	
	Program	Bachelors	
	(Bachelor's degree)		
	Academic semester	Spring semester of the 2023/2024 academic year	
	Subject teacher(s)	Leyla Huseynova PhD student	
	E-mail:	leylahuseynova@khazar.org	
	Telephone:	-	
	Lecture room/Schedule	Khazar University, Neftchilar campus	
	Counseling hours	At times agreed upon with students	
Prerequisites	-		
Language of instruction	English		
Type of subject	Compulsory		
(compulsory,			
elective)			
Textbooks and additional	 "The Design of Everyday Things" by Donald A. Norman (1988) "Seductive Interaction Design: Creating Playful, Fun, and Effective User Experiences" by 		
literature	2. "Seductive Interaction Design: Creating Playful, Fun, and Effective User Experiences" by Stephen Anderson (2011)		
nteruture	3. "Don't Make Me Think, Revisited: A Common Sense Approach to Web Usability" by Steve		
	Krug (2014)		
	4. "Hooked: How to Build Habit-Forming Products" by Nir Eyal (2014)5. "Change by Design: How Design Thinking Transforms Organizations and Inspires		
	Innovation" by Tim Brown (2009)		
	6. "Lean UX: Designing Great Products with Agile Teams" by Jeff Gothelf and Josh Seiden		
	 (2013) 7. "The Lean Startup: How Today's Entrepreneurs Use Continuous Innovation to Create Radically Successful Businesses" by Eric Ries (2011) 		
	8. "Design Sprint: A Practical Guidebook for Building Great Digital Products" by Richard		
	Banfield, C. Todd Lombardo, and Trace Wax (2015)9. "The Innovator's Dilemma: When New Technologies Cause Great Firms to Fail" by Clayton		
	M. Christensen (1997)		
	10. "Creative Confidence: Unleashing the Creative Potential Within Us All" by Tom Kelley and David Kelley (2013)		
Course description	Product design courses are educational programs that focus on teaching students the		
	principles, skills, and methodologies involved in designing products. These courses		
	often cover a range of topics, including design thinking, user-centered design,		
	prototyping, materials and manufacturing processes, and the use of design tools and software. There are various levels of product design courses, ranging from short-term		
	workshops to undergraduate and graduate degree programs. The specific content and		
	focus may vary depending on the institution and the level of the course. Popular areas		
	of study include industrial design, product design, and interaction design.		
Course objectives	The course objectives for a product design program may vary depending on the specific		
	focus and level of the course (e.g., undergraduate, graduate, or professional development). However, here are some common course objectives often associated with		
	product design education:		
	Developing Design Thinking Skills: Foster the ability to approach problems with a		
	design thinking mindset, emphasizing empathy, creativity, ideation, and iterative		
	prototyping.		

Results of teaching					
(learning).	various aspects of a student's development and career outcomes. Here are some common				
	results or outcomes associated with the teaching of product design: Developed Design Thinking Skills: Students should demonstrate an enhanced ability to				
	approach problems with a design thinking mindset, emphasizing creativity, empathy,				
	ideation, and prototyping.				
	User-Centered Design Proficiency: Graduates should be skilled in conducting user				
	-	-	ng user feedback into the design		
	process.				
	Technical Competence: Students should acquire proficiency in using design tools and software, such as CAD (Computer-Aided Design), to create 2D and 3D models,				
	renderings, and prototypes.				
	Effective Communication: Graduates should be able to communicate design ideas clearly and effectively through visual representations, presentations, and written				
	documentation. Materials and Manufacturing Knowledge: Students should have a solid understanding o different materials, their properties, and various manufacturing processes, enabling informed design decisions.				
	Prototyping and Iteration Skills: Graduates should be adept at creating physical and digital prototypes and demonstrate an understanding of the importance of iterative				
	design processes.				
	Problem-Solving Abilities: Students should exhibit strong critical thinking and problem-				
	solving skills, applying analytical and creative approaches to address design challenges.				
	Awareness of Ethical and Sustainable Design Practices: Graduates should be conscious of ethical considerations in design, including sustainability, social responsibility, and the				
	impact of products on the en		ability, social responsibility, and the		
			rojects, case studies, or internships		
	Real-World Applications: Exposure to real-world projects, case studies, or internships should provide students with practical experience and an understanding of the				
		challenges and opportunities in the professional field.			
	Career Readiness: The ultimate result is the preparation of students for successful entry into the workforce, equipped with the skills and knowledge needed for a career in				
	product design.	outcomes more very de	panding on the specific program, the		
	It's important to note that the outcomes may vary depending on the specific program, the				
		commitment of students, and the evolving nature of the design industry. Many successful designers attribute their accomplishments to a combination of formal			
		education, continuous learning, practical experience, and a passion for creativity and			
	innovation.				
Teaching	Lecture		+		
methods	Group discussion	+			
	Practical exercises	+			
	Analysis of a practical issue				
Assessment	Components	Date/deadline	Components		
	Presentation (research)		15		
	Attendance		5		
	Activity		15		
	Midterm exam		25		
	Final exam		40		
	Conclusion		100		
Rules (Teaching	Lecture, seminar, presentation	on			
policy and	Students should carefully liste	n to the information giv	ven by the teacher and complete the		
conduct	project by doing their own res	earch on the selected to	opic. During the construction phase		
	-		-		

of the project, the teacher will give the necessary information to the student, and in addition, the student will prepare the project for presentation in line with his own design.

The plans of the project should be drawn in drawing programs, and the 3D lines of the project should also be drawn.

In the December exam, students must present the design phase and drawings of the project in detail.

A model of the project must be prepared and presented along with the presentation of the drawings in the final exam.

Each presentation will be evaluated as appropriate and given points.

Copying should not be used in the selection and construction of the project.

The model can be made as a prototype and from various materials, depending on the type of the project.

The length of the model should be at least 20 cm and at most 50 cm.

The model should be presented on a black plain A3 tablet, and the student's name, surname, course name and the year in which the model was made should be written at the bottom of the tablet during the presentation.

Exception: If the student informed the dean of the faculty in advance that he/she will not be able to participate in the handover phase of the work due to valid reasons (related to family situation and health), or if he/she has submitted any related document (application or reference), only in this case the student will be able to attend after the deadline. can hand over the work.

Attendance:

The maximum score for class attendance is 5 points. The number of points is based on: if the student attends all classes in the subject during the semester, he is given 5 points. If the total number of lessons missed during the semester for the subject exceeds the prescribed limit of 25% (illness, family situation, etc.), the student is not admitted to the exam session and a certain decision is made about him.

Exams:

The mid-term exam will be held on subjects taught in March or April (after the project is handed over), and the final exam will be held on subjects taught in May or June (after the project is handed over).

The procedure for completing the subject.

The student's knowledge is evaluated with a maximum of 100 points. An overall success rate of 60% and above is considered to complete the course. A student with a deficit can take this subject again in the next semester or the next year.

Rules of conduct of the student.

A student is not allowed to violate the University's internal disciplinary rules and use a mobile phone. It is forbidden to violate the educational process and ethical rules during the lesson. Unauthorized discussions between students are also prohibited during class.

Week	Date	Topics of the subject	Tutorial/Assignments
1.	12.02.2024	Introduction to Product Design	Product design is the process of
			creating and developing new
			products with a focus on
			functionality, aesthetics, and user
			experience.
2.	19.02	Importance of User-Centered Design	Emphasize the significance of
			understanding user needs and
			preferences to create products
			that meet or exceed customer
			expectations.
3.	26.02	Design Thinking Approach.	Introduce the design thinking
01	_0.0_		methodology, involving
			empathizing with users, defining
			problems, ideating solutions,
			prototyping, and testing.
4.	04.03	The Design Drief	
4.	04.03	The Design Brief.	Explain the role of a design brief
			in guiding the design process,
			detailing project requirements,
_			constraints, and objectives.
5.	11.03	Research and Analysis.	Discuss the importance of
			thorough research, market
			analysis, and competitor studies
			to inform the design process and
			identify opportunities.
6.	18.03	Concept Generation.	Explore techniques for
			brainstorming and generating
			creative design concepts,
			encouraging students to think
			divergently.
7.	25.03	Sketching and Rendering.	Highlight the importance of
			sketching and rendering skills in
			visualizing design ideas and
			communicating them effectively
			to stakeholders.
8.	01.04	Prototyping and Model Making.	Emphasize the iterative nature of
		Materials and Manufacturing Processes.	prototyping and model making to
			refine and test design concepts
			before finalizing a product.
			Provide an overview of various
			materials and manufacturing
			processes, and their impact on
			design decisions, cost, and
			sustainability.
9.		Midterm exam	
10.	08.04	Ergonomics and Human Factors.	Discuss the principles of
			ergonomics and human factors in
			product design, ensuring products
			are comfortable and user-

			friendly.
11.	15.04	Sustainable Design.	Highlight the importance of integrating sustainable practices into product design, considering environmental impact and lifecycle assessments.
12.	22.04	Design for Accessibility.	Discuss the principles of inclusive design, emphasizing the importance of creating products that are accessible to people of all abilities.
13.	29.04	Branding and Packaging.	Introduce the role of branding and packaging in product design, as they contribute to the overall perception and success of a product in the market.
14.	06.05	Design Communication.	Explore effective ways to communicate design ideas, including the use of 2D and 3D software, presentations, and design documentation.
15.	13.05	Design Ethics.	Discuss the ethical considerations in product design, including issues related to user privacy, safety, and the social impact of products on communities. Completing the product design and preparing it for presentation
Final exam			

Təsdiq edir: <u>Dos. Abbasova Ş.A.</u> Memarlıq və dizayn departamentinin rəhbəri