

Medicine			
Bachelor	TR-NQF-HE: Level 7	QF-EHEA: Second Cycle	EQF-LLL: Level 7

## Course Introduction and Application Information

Course Code:	UNI336		
Course Name:	Design Thinking		
Semester:	Spring Fall		
Course Credits:	<div>ECTS</div> <div>5</div>		
Language of instruction:	Turkish		
Course Condition:			
Does the Course Require Work Experience?:	No		
Type of course:	University Elective		
Course Level:	<div>Bachelor</div> <div>TR-NQF-HE:7. Master`s Degree</div> <div>QF-EHEA:Second Cycle</div> <div>EQF-LLL:7. Master`s Degree</div>		
Mode of Delivery:	E-Learning		
Course Coordinator:	Prof. Dr. HATİCE ÖZ PEKTAŞ		
Course Lecturer(s):	MELDA GÖKNEL		
Course Assistants:			

## Course Objective and Content

Course Objectives:	<p>Course Objectives This course introduces the basic principles of interaction, service, product and system design with the first and foremost focus on people's needs, choices, and experiences rather than anything else. The course addresses the underlying framework for understanding and practicing fundamental concepts, tools, and design processes with a broad focus on all stakeholders rather than only end-users. Various tools and techniques such as co-designing,</p>
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	envisioning, testing and prototyping, role-playing and touchpoints are introduced throughout the course. Students, individually and as a team, experience a series of hands-on, class-based exercises on the methodology of creating products and services.
Course Content:	Course Content To introduce students to theoretical knowledge, conceptual approaches, and practical skills of Design Thinking to understand and learn human-centered design methodology.

## Learning Outcomes

The students who have succeeded in this course;

- 1) Recognize the basic principles of Design Thinking and human-centered design methodology.
- 2) Define exemplary business and design problems by using various tools and techniques of the methodology.
- 3) Apply the principles of the methodology to develop solution proposals considering various stakeholders.
- 4) Prepare an innovative project proposal in line with the main requirements of the methodology as a team.

## Course Flow Plan

Week	Subject	Related Preparation
1)	Meet and Greet, Forming Final Project Groups, Fundamentals of the course and needed equipment	-
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2)	What is Human Centered Design?	-
3)	Empathy Methods– field work	-
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4)	Persona – in class exercise	-
5)	Defining the problem	-
6)	Mad Lib and HMWQ – in class exercise	-
7)	Ideation Methods – in class exercise	-
8)	MID SEMESTER PRESENTATION OF THE FINAL PROJECT	-
9)	Feed-back on projects and strategies for further development	-
10)	Prototype and Test – in class exercise	-

11)	Project evaluation with RWW – in class exercise (may be holiday)	-
12)	Making a design budget and production timeline	-
13)	Storytelling for design	-
14)	Final presentation	-

## Sources

Course Notes / Textbooks:	The Design of Everyday Things, Don Norman, 1988. Tasarım Odaklı Düşünce-Design Thinking, Emrah Kozan, 2021.
References:	The Design of Everyday Things, Don Norman, 1988. Tasarım Odaklı Düşünce-Design Thinking, Emrah Kozan, 2021.

## Course - Program Learning Outcome Relationship

Course Learning Outcomes	1	2	3	4
Program Outcomes				
1) The graduate integrates the knowledge, skills, attitudes, and behaviours acquired from basic and clinical sciences, behavioural sciences, and social sciences in the form of competencies and uses them for the provision of rational, effective, safe health care services in accordance with quality standards in the prevention, diagnosis, treatment, follow-up, and rehabilitation processes, and during the process considers protection of both patient's health and healthcare workers health including her/his own.				
2) The graduate shows a biopsychosocial approach in patient management that considers the sociodemographic and sociocultural background of the individual without discrimination of language, religion, race, and gender.				
3) The graduate prioritizes the protection and development of the health of individuals and society in the provision of health care services.				
4) The graduate, considering the individual, social, public, and environmental factors affecting health; works towards maintaining and improving the state of health.				
5) In the provision of health care services, the graduate considers both the changes in the physical and socioeconomic environment on a regional and global scale that affect health, as well as the changes in the individual characteristics and behaviours of the people who apply to her/him.				
6) The graduate recognizes the characteristics, needs and expectations of the target population and provides health education to healthy/sick individuals and their relatives and other health care workers.				

7) While carrying out her/his profession, the graduate fulfils her/his duties and obligations with determined behaviours to provide high-quality health care within the framework of ethical principles, rights and legal responsibilities and good medical practices, considering the integrity, privacy, and dignity of the patient.	1	2	3	4
8) The graduate evaluates and improves her/his own performance in professional practices in terms of emotions, cognitive characteristics, and behaviours.				
9) The graduate physician advocates improving the provision of health services by considering the concepts of social reliability and social commitment to protect and improve public health.				
10) To protect and improve health, the graduate physician can plan and carry out service delivery, training and consultancy processes related to individual and community health in cooperation with all components.				
11) The graduate physician evaluates the impact of health policies and practices on individual and community health indicators and advocates increasing the quality of health services.				
12) The graduate physician attaches importance to protecting and improving her/his own physical, mental, and social health, and does what is necessary for this.				
13) During the provision of health care, the graduate shows exemplary behaviours and leads within the health team.				
14) The graduate uses the resources cost-effectively, in the planning, implementation, execution, and evaluation processes of the health care services in the health institution she/he manages, for the benefit of the society and in accordance with the legislation.				
15) The graduate communicates positively within the health team with whom she/he provides health care services, being aware of the duties and obligations of other health workers and shows appropriate behaviours to assume different team roles when necessary.				
16) The graduate works harmoniously and effectively with her/his colleagues and other professional groups in her/his professional practice.				
17) The graduate communicates effectively with patients, patient relatives, health care workers and other professional groups, institutions, and organizations, including individuals and groups that require a special approach and have different sociocultural characteristics.				
18) The graduate shows a patient-centred approach in the protection, diagnosis, treatment, follow-up, and rehabilitation processes that involve the patient and patient's caregivers as partners in the decision-making mechanisms.				

19) When necessary, the graduate plans and implements scientific research for the population she/he serves, and uses the results obtained and/or the results of other research for the benefit of the society.	1	2	3	4
20) The graduate reaches the current literature information related to her/his profession, evaluates critically, and applies the principles of evidence-based medicine in the clinical decision-making process.				
21) The graduate uses information technologies to improve the effectiveness of her/his work in health care, research, and education.				
22) The graduate effectively manages individual study and learning processes and career development.				
23) The graduate demonstrates the ability to acquire, evaluate, integrate new knowledge with existing knowledge, apply it to professional situations, and adapt to changing conditions throughout professional life.				
24) The graduate chooses the right learning resources to improve the quality of the health care service she/he provides, organizes her/his own learning process.				

### Course - Learning Outcome Relationship

No Effect	1 Lowest	2 Average	3 Highest

	Program Outcomes	Level of Contribution
1)	The graduate integrates the knowledge, skills, attitudes, and behaviours acquired from basic and clinical sciences, behavioural sciences, and social sciences in the form of competencies and uses them for the provision of rational, effective, safe health care services in accordance with quality standards in the prevention, diagnosis, treatment, follow-up, and rehabilitation processes, and during the process considers protection of both patient's health and healthcare workers health including her/his own.	
2)	The graduate shows a biopsychosocial approach in patient management that considers the sociodemographic and sociocultural background of the individual without discrimination of language, religion, race, and gender.	
3)	The graduate prioritizes the protection and development of the health of individuals and society in the provision of health care services.	
4)	The graduate, considering the individual, social, public, and environmental factors affecting health; works towards maintaining and improving the state of health.	

5)	In the provision of health care services, the graduate considers both the changes in the physical and socioeconomic environment on a regional and global scale that affect health, as well as the changes in the individual characteristics and behaviours of the people who apply to her/him.	
6)	The graduate recognizes the characteristics, needs and expectations of the target population and provides health education to healthy/sick individuals and their relatives and other health care workers.	
7)	While carrying out her/his profession, the graduate fulfils her/his duties and obligations with determined behaviours to provide high-quality health care within the framework of ethical principles, rights and legal responsibilities and good medical practices, considering the integrity, privacy, and dignity of the patient.	
8)	The graduate evaluates and improves her/his own performance in professional practices in terms of emotions, cognitive characteristics, and behaviours.	
9)	The graduate physician advocates improving the provision of health services by considering the concepts of social reliability and social commitment to protect and improve public health.	
10)	To protect and improve health, the graduate physician can plan and carry out service delivery, training and consultancy processes related to individual and community health in cooperation with all components.	
11)	The graduate physician evaluates the impact of health policies and practices on individual and community health indicators and advocates increasing the quality of health services.	
12)	The graduate physician attaches importance to protecting and improving her/his own physical, mental, and social health, and does what is necessary for this.	
13)	During the provision of health care, the graduate shows exemplary behaviours and leads within the health team.	
14)	The graduate uses the resources cost-effectively, in the planning, implementation, execution, and evaluation processes of the health care services in the health institution she/he manages, for the benefit of the society and in accordance with the legislation.	
15)	The graduate communicates positively within the health team with whom she/he provides health care services, being aware of the duties and obligations of other health workers and shows appropriate behaviours to assume different team roles when necessary.	
16)	The graduate works harmoniously and effectively with her/his colleagues and other professional groups in her/his professional practice.	
17)	The graduate communicates effectively with patients, patient relatives, health care workers and other professional groups, institutions, and organizations, including	

	individuals and groups that require a special approach and have different sociocultural characteristics.	
18)	The graduate shows a patient-centred approach in the protection, diagnosis, treatment, follow-up, and rehabilitation processes that involve the patient and patient's caregivers as partners in the decision-making mechanisms.	
19)	When necessary, the graduate plans and implements scientific research for the population she/he serves, and uses the results obtained and/or the results of other research for the benefit of the society.	
20)	The graduate reaches the current literature information related to her/his profession, evaluates critically, and applies the principles of evidence-based medicine in the clinical decision-making process.	
21)	The graduate uses information technologies to improve the effectiveness of her/his work in health care, research, and education.	
22)	The graduate effectively manages individual study and learning processes and career development.	
23)	The graduate demonstrates the ability to acquire, evaluate, integrate new knowledge with existing knowledge, apply it to professional situations, and adapt to changing conditions throughout professional life.	
24)	The graduate chooses the right learning resources to improve the quality of the health care service she/he provides, organizes her/his own learning process.	

### Assessment & Grading

Semester Requirements	Number of Activities	Level of Contribution
Midterms	1	% 40
Final	1	% 60
<b>total</b>		<b>% 100</b>
PERCENTAGE OF SEMESTER WORK		% 40
PERCENTAGE OF FINAL WORK		% 60
<b>total</b>		<b>% 100</b>

### Workload and ECTS Credit Calculation

Activities	Number of Activities	Workload

Course Hours	5	10
Application	16	32
Special Course Internship (Work Placement)	5	10
Field Work	2	4
Study Hours Out of Class	3	4
Presentations / Seminar	3	6
Project	16	32
Quizzes	5	10
Midterms	4	8
Final	1	2
<b>Total Workload</b>		<b>118</b>