

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

Course Introduction and Application Information

Course Code:	UNI197		
Course Name:	Toxic Substances in Nutrients		
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:	Dr. Öğr. Üy. MERVE ARICI		
Course Lecturer(s):	Doctoral Lecturer Merve ARICI		
Course Assistants:			

Course Objective and Content

Course Objectives:	To give information about additives and natural ingredients that have toxic effects in foods and their effects, food allergy, environmental pollutants and their effects
Course Content:	Food safety, related regulations and legal regulations, food additives, toxic substances in foods due to various reasons and their effects, natural contaminants and their effects, pesticides and

Learning Outcomes

The students who have succeeded in this course;

- 1) She/He has information about toxic substances in foods and their effects
- 2) She/He has information about natural contaminants.
- 3) She/He has information about pesticides and their effects.
- 4) She/He has information heavy metals and their effects.
- 5) She/He has information about food allergy.

Course Flow Plan

Week	Subject	Related Preparation
1)	Food Safety and General Concepts	
2)	Hazards in Foods I	
3)	Hazards in Foods II	
4)	Food Additives	
5)	Environmental Contaminants I	
6)	Environmental Contaminants II	
7)	Mid term exam	
8)	Environmental Contaminants III	
9)	Detergents and Packaging Materials	
10)	Natural Toxins I	
11)	Natural Toxins II	
12)	Food-Related Hereditary Diseases and Food Allergy	
13)	Student Presentations	
14)	Student Presentations	
15)	Final Exam	

Sources

Course Notes / Textbooks:	Dersin öğretim üyesinin notları - Lecturer's notes.

References:	<ul style="list-style-type: none"> • Vural, N. (2005). Toksikoloji • Carson, R. (2021). Silent Spring. Palme Yayınevi. Çeviri: Çağatay Güler • Ayaz, A., Yurttagül, M. (2008). Besinlerdeki Toksik Öğeler I-II • Zehirlenmeler & İlaç Aşırı Dozu (2012). Çeviri Editörü: Prof. Dr. Vahide Savcı
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Course - Program Learning Outcome Relationship

Course Learning Outcomes	1	2	3	4	5
Program Outcomes					
1) When Istinye University Faculty of Medicine student is graduated who knows the historical development of medicine, medical practices, and the medical profession and their importance for society.					
2) knows the normal structure and function of the human body at the level of molecules, cells, tissues, organs and systems.					
3) is capable of systematically taking an accurate and effective social and medical history from their patients and make a comprehensive physical examination.					
4) knows the laboratory procedures related to diseases; In primary care, the necessary material (blood, urine, etc.) can be obtained from the patient with appropriate methods and can perform the necessary laboratory procedures for diagnosis and follow-up or request laboratory tests.					
5) can distinguish pathological changes in structure and functions during diseases from physiological changes and can Interpret the patient's history, physical examination, laboratory and imaging findings, and arrive at a pre-diagnosis and diagnosis of the patient's problem.					
6) knows, plans and applies primary care and emergency medical treatment practices, rehabilitation stages.					
7) can keep patient records accurately and efficiently, know the importance of confidentiality of patient information and records, and protects this privacy.					
8) knows the clinical decision-making process, evidence-based medicine practices and current approaches.					
9) knows and applies the basic principles of preventive health measures and the protection of individuals from diseases and improving health, and recognizes the individual and/or society at risk, undertakes the responsibility of the physician in public health problems such as epidemics and pandemics.					
10) knows the biopsychosocial approach, evaluates the causes of diseases by considering the individual and his / her environment.					

11) is capable of having effective oral and/or written communication with patients and their relatives, society and colleagues. Course Learning Outcomes	1	2	3	4	5
12) knows the techniques, methods and rules of researching. It contributes to the creation, sharing, implementation and development of new professional knowledge and practices by using science and scientific method within the framework of ethical rules.					
13) can collect health data, analyze them, present them in summary, and prepare forensic reports.					
14) knows the place of physicians as an educator, administrator and researcher in delivery of health care. It takes responsibility for the professional and personal development of own and colleagues in all interdisciplinary teams established to increase the health level of the society.					
15) knows employee health, environment and occupational safety issues and takes responsibility when necessary.					
16) knows health policies and is able to evaluate their effects in the field of application.					
17) keeps medical knowledge up-to-date within the framework of lifelong learning responsibility.					
18) applies own profession by knowing about ethical obligations and legal responsibilities, prioritizing human values and with self-sacrifice throughout own medical life.					

Course - Learning Outcome Relationship

No Effect	1 Lowest	2 Average	3 Highest

	Program Outcomes	Level of Contribution
1)	When Istinye University Faculty of Medicine student is graduated who knows the historical development of medicine, medical practices, and the medical profession and their importance for society.	
2)	knows the normal structure and function of the human body at the level of molecules, cells, tissues, organs and systems.	
3)	is capable of systematically taking an accurate and effective social and medical history from their patients and make a comprehensive physical examination.	

4)	knows the laboratory procedures related to diseases; In primary care, the necessary material (blood, urine, etc.) can be obtained from the patient with appropriate methods and can perform the necessary laboratory procedures for diagnosis and follow-up or request laboratory tests.	
5)	can distinguish pathological changes in structure and functions during diseases from physiological changes and can Interpret the patient's history, physical examination, laboratory and imaging findings, and arrive at a pre-diagnosis and diagnosis of the patient's problem.	
6)	knows, plans and applies primary care and emergency medical treatment practices, rehabilitation stages.	
7)	can keep patient records accurately and efficiently, know the importance of confidentiality of patient information and records, and protects this privacy.	
8)	knows the clinical decision-making process, evidence-based medicine practices and current approaches.	
9)	knows and applies the basic principles of preventive health measures and the protection of individuals from diseases and improving health, and recognizes the individual and/or society at risk, undertakes the responsibility of the physician in public health problems such as epidemics and pandemics.	
10)	knows the biopsychosocial approach, evaluates the causes of diseases by considering the individual and his / her environment.	
11)	is capable of having effective oral and/or written communication with patients and their relatives, society and colleagues.	
12)	knows the techniques, methods and rules of researching. It contributes to the creation, sharing, implementation and development of new professional knowledge and practices by using science and scientific method within the framework of ethical rules.	
13)	can collect health data, analyze them, present them in summary, and prepare forensic reports.	
14)	knows the place of physicians as an educator, administrator and researcher in delivery of health care. It takes responsibility for the professional and personal development of own and colleagues in all interdisciplinary teams established to increase the health level of the society.	
15)	knows employee health, environment and occupational safety issues and takes responsibility when necessary.	
16)	knows health policies and is able to evaluate their effects in the field of application.	

17)	keeps medical knowledge up-to-date within the framework of lifelong learning responsibility.	
18)	applies own profession by knowing about ethical obligations and legal responsibilities, prioritizing human values and with self-sacrifice throughout own medical life.	

Assessment & Grading

Semester Requirements	Number of Activities	Level of Contribution
Presentation	1	% 20
Midterms	1	% 30
Final	1	% 50
total		% 100
PERCENTAGE OF SEMESTER WORK		% 50
PERCENTAGE OF FINAL WORK		% 50
total		% 100

Workload and ECTS Credit Calculation

Activities	Number of Activities	Workload
Course Hours	15	28
Field Work	13	27
Study Hours Out of Class	13	46
Presentations / Seminar	4	8
Homework Assignments	2	4
Quizzes	2	2
Midterms	1	1
Final	1	1
Total Workload		117