

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

Course Introduction and Application Information

Course Code:	UNI228		
Course Name:	Personal Medicine		
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>BachelorTR-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. FATMA KÜBRA TOMBULTÜRK		
Course Lecturer(s):	Fatma Kübra Tombultürk		
Course Assistants:			

Course Objective and Content

Course Objectives:	It is aimed to learn personal medicine-targeted information by determining and learning personalized treatment methods.
Course Content:	It includes treatment options based on human molecular profile in various diseases.

Learning Outcomes

The students who have succeeded in this course;

- 1) Gain knowledge of personalized medicine resulting from each person's clinical, genetic, genomic and environmental knowledge.
- 2) Learns treatment options based on human molecular profile in various diseases.
- 3) Learns that the molecular profile is different in each individual.
- 4) Have distinctive knowledge about the effect of modern medicine and personalized medicine on diseases.

Course Flow Plan

Week	Subject	Related Preparation
1)	Genomic information	
2)	Personalized medicine	
3)	Genomic approach to Personal Targeted drug therapy	
4)	Pharmacogenomics and complex diseases	
5)	Pharmacogenetics and potential applications in personalized medicine-1	
6)	Pharmacogenetics and potential applications in personalized medicine-2	
7)	Role of noncoding RNAs in personalized molecular therapy	
8)	Midterm exam	
9)	Personalized medicine treatments based on the molecular profile in cancer-1	
10)	Personalized medicine treatments based on the molecular profile in cancer-2	
11)	Personalized medicine treatments based on molecular profile in diabetes	
12)	Pharmacometabolomics drug metabolism, toxicity and efficacy in personalized medicine	
13)	Future personalized medicine practice plans	
14)	Known and unknown in personalized medicine	
15)	Final exam	
16)	Final exam	

Sources

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Course Notes / Textbooks:	Öğretim üyesinin ders notları
References:	Academic Member's lecture notes

Course - Program Learning Outcome Relationship

Course Learning Outcomes	1	2	3	4
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.	1	2	3	4
Course Learning Outcomes				
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.	
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Assessment & Grading

Semester Requirements	Number of Activities	Level of Contribution
Midterms	1	% 50
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	13	39
Study Hours Out of Class	13	39
Presentations / Seminar	8	24
Homework Assignments	13	13
Total Workload		115