

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Pharmacogenetics a	and Applications					
Course Code	VFT555	Couse Leve	·[Second Cycle (Master's Degree)			
ECTS Credit 4	Workload 100 (Hours) Theory	1	Practice	2	Laboratory	0
Objectives of the Course To be informed about pharmacogenetics, their genetic structure their responses to drugs due to evariations with changes in its metabolism of drugs involved or the effective functioning of the med of the drug in some people, the usefulness of the genetic differences in the structures and/or hard					echanism		
Course Content	Pharmacogenetics; to changes of the drugs in some people, the examined.	s involved in its meta	abolism, or	the effective fi	unctioning of	the mechanism of	of the drug
Work Placement	N/A						
Planned Learning Activities and Teaching Methods				tion), Experime , Problem Sol		ration, Discussion	n, Case
Name of Lecturer(s)							

Assessment Methods and Criteria					
Method	Quantity	Percentage (%)			
Midterm Examination	1	40			
Final Examination	1	60			

Recor	mmended or Required Reading
1	Laboratuvar Testleri Klinik Klavuzu, Alan H. B. WU; Güneş Tıp Kitabevi, 2011
2	İmmunoloji, Prof. Dr. Mustafa ARDA, Prof. Dr. Ahmet MİNBAY, Prof. Dr. Nejat AYDIN, Prof. Dr. Ömer AKAY, Prof. Dr. Müjgan İZGÜR, Doç. Dr. K.Serdar DİKER; Medisan Yayınevi, 1994.
3	Principles and Methods of Toxicology, A. Wallace HAYES, Edward BROTHERS; Ann Arbor Press, 2001
4	Plant Phenolics and Human Health: Biochemistry, Nutrition, Pharmacology, Cesar G FRAGA (Editor); A John Willey & Sons Inc. Publication, 2010.
5	Veterinary Pharmacology and Therapeutics, H. Richard ADAMS; Iowa University Press

Week	Weekly Detailed Cour	se Contents				
1	Theoretical	Basic concepts in genetic structure				
	Practice	Method to determine the applications guide				
2	Theoretical	Evaluation of the contribution of genetic and environmental factors				
	Practice	Method to determine the applications guide				
3	Theoretical	Genetic damage, effects				
	Practice	Selection of genetic testing and study design				
4	Theoretical	DNA damage repair, and genetic risk assessment process				
	Practice	Selection of genetic testing and study design				
5	Theoretical	Pharmacogenetics domains				
	Practice	Genetic risk assessment methods				
6	Theoretical	Change due to drug interactions and genetics				
	Practice	Genetic risk assessment methods				
7	Theoretical	Article discussion				
	Practice	Paper presentation				
8	Intermediate Exam	Midterm exam				
9	Theoretical	Genetic difference in impact on drug interactions - or inhibition of enzyme induction				
	Practice	Impact of pharmacogenetics in the treatment of drug tests				
10	Theoretical	Pharmacodynamics of drugs that changes the genetic difference				
	Practice	Examination of the application fields of pharmacogenetic tests				
11	Theoretical	Examination of drug and enzyme polymorphism				
	Practice	Phenotypic methods applications				
12	Theoretical	Examination of drug and enzyme polymorphism				



12	Practice	Probe drug applications
13	Theoretical	Clinical use of pharmacogenomics studies
	Practice	Pharmacogenetic applications of molecular cytogenetic testing
14	Theoretical	Clinical use of pharmacogenomics studies
	Practice	Pharmacogenetic applications of molecular genetic testing
15	Theoretical	Article discussion
	Practice	Method to determine the applications guide
16	Final Exam	Final

Workload Calculation					
Activity	Quantity	Preparation	Duration	Total Workload	
Lecture - Theory	14	1	1	28	
Lecture - Practice	15	1	2	45	
Midterm Examination	1	10	2	12	
Final Examination	1	13	2	15	
		T	otal Workload (Hours)	100	
[Total Workload (Hours) / 25*] = ECTS					
*25 hour workload is accepted as 1 ECTS					

Learn	ing Outcomes
1	Learn about genetic differences in humans and animals and their responses to drugs
2	To obtain information on genetic structures in the metabolism of drugs
3	Learn about the harmful effects of drugs in humans and animals
4	To obtain information on pharmacogenetic testing and application areas
5	To give lectures and/or presentations and discuss with professionals in the area.

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Prog	ramme Outcomes (Veterinary Pharmacology and Toxicology Master's Without Thesis)
1	to be able to comprehend expert knowledge on field of pharmacology and toxicology in veterinary medicine
2	to be able to define expert knowledge on interdisciplinary interaction in pharmacology and toxicology
3	to be able to formulate ideas to solve complex problems using theoretical and practical information gained throughout the pharmacology and toxicology education
4	to be able to integrate and interpret information in the area of pharmacology and toxicology with information in different fields and, if the need arises, provides scientific information and solutions to solve problems.
5	to be able to develop and use strategies in his/her field of expertise in Master's Program of Pharmacology and Toxicolog
6	to be able to comprehend methods of obtained and submitted scientific knowledge
7	to be able to analyse current information related to his/her field of expertise (scientific information, procedures etc.) and use them when necessary.
8	to be able to apply technological tools in social relationships of vocational and professional environment
9	to be able to review, evaluate and interpret any data (field observations, available scientific information etc.) towards a specific purpose.
10	to be able to comprehend expert knowledge on the function and basic pharmacological features of pharmacology and sub- branches of science, relationship between the drug and poison, pharmacokinetic, effects of the drugs, the dose-intensity and dose-effect relationship.
11	to be able to identify expert knowledge on the function and basic toxicological features of poison, classifications and types of poisoning, toxicokinetic, general principles of treatment of poisoning
12	to be able to define and use laboratory equipment in a pharmacology and toxicology laboratory.

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L5
P1	4				
P3				4	4
P4					4
P5					5
P6		4	4		5
P8					5
P9				5	5
P10		5	5		



P11	5	5		
P12			4	

