Course Syllabus

Code - Course Title	**FKL529 - Pharmacogenetic**
Course Type	I. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	DR. ÖĞR. ÜYESİ ELİF KAYA TİLKİ

Mode of Delivery	The mode of delivery of this course is Face to face
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	There is no recommended optional programme component for this course.
Recommended Resources	Weimin Cai, Zhaoqian Liu, Liyan Miao, Xiaoqiang Xiang. Pharmacogenomics in Precision Medicine: From a Perspective of Ethnic Differences. Springer Singapore, 2020.Lam Yui-Wing Francis, Scott Stuart A. Pharmacogenomics: challenges and opportunities in therapeutic implementation [Second edition], United Kingdon Academic Press, 2019Feng Xiaodong, Xie Hong-Guang. Applying pharmacogenomics in therapeutics. CRC Press, 2016.Zdanowicz M.M. Concepts in Pharmacogenomics. American Society of Health-System Pharmacists, Bethesda, 2010.Goodman & Gilman Tedavinin Farmakolojik Temeli (Türkçe Çeviri), Ed: Öner Süzer, Nobel Tıp Kitabevleri, 2009.Lüleyap H.Ü. Moleküler Genetiğin Esasları. Farmakogenetik (Bölüm 20). Nobel kitapevi, 2008.Hall I.P. and Pirmohamed M. Pharmacogenetics. Thaylor & Francis Group, 2006.Karataş M. Moleküler Biyoloji. 1. Baskı. Nobel Yayın Dağıtım, Ankara 2012.
Work Placement	Not Applicable

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Genetic structure,structure of DNA and function. Pharmacogenetics and pharmacogenomics notions	
Week - 2		Functions and structures of RNA and proteins.	
Week - 3		Structures of genes and gene expressions; the method, variety and analysis of polymorphism	
Week - 4		The importance of pharmakogenetics and pharmacogenomics in drug production and response	
Week - 5		Absorption, distrubition, metabolism and elimination of drugs.	
Week - 6		The changes depending on the genetic factors in drug pharmacokinetics and pharmacodynamics.	
Week - 7		The changes depending on the genetic factors in drug pharmacokinetics and pharmacodynamics.	
Week - 8		The pharmacogenetics of enzymes in the drug metabolism and their examples	
Week - 9		The pharmacogenetics and examples of receptors in the drug metabolism	

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 10		The pharmacogenetics and examples of drug carriers in the drug metabolism	
Week - 11		The significance of pharmacogenomics in pharmacy education and practice.	
Week - 12		Pharnacogenomics and Proteomics.	
Week - 13		Gene therapy	
Week - 14		Gene therapy	

Learning Outcomes

#	Learning Outcome
1	debate the genetic factors, genomic structure and its importance.
2	debate the effects of genetic structure on drug pharmacokinetics and pharmacodynamics.
3	debate pharmacy education of pharmacogenetics and its importance in clinic.

Sustainable Development Goals

No content has been provided.

Course Theme

No content has been provided.

AKTS Workload

Activity	Duration (Hour)	Count	Workload
Teorik Derse Katılım	0	0	0
Sınıf Dışı Çalışma (Ön Hazırlık & Pekiştirme Amaçlı)	0	0	0
Ödevler	0	0	0
Proje - Rapor - Sunum Hazırlama	0	0	0
Ara Sınav Hazırlığı (sınav süresi dahil)	0	0	0
Final Sınavı Hazırlığı (sınav süresi dahil)	0	0	0
Uygulama (Laboratuvar, Müzik/Enstrüman Uygulaması, Atölye/Saha Çalışması vb.)	0	0	0
Staj Uygulaması	0	0	0
		Calculated ECTS	**0**

Assessment Method and Passing Requirements

No content has been provided.

Assessment Method and Passing Requirements	Quamtity	Percentage (%)
Final Exam	1	100
	Sum (%)	**100**