Course Syllabus

Code - Course Title	**FKM626 - Drug Enzyme Interactions**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**7.5**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	PROF. DR. MEHLİKA DİLEK ALTINTOP

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 optional programme component
Recommended Resources	Evaluation of enzyme inhibitors in drug discovery: a guide for medicinal chemists and pharmacologists / Robert A. Copeland. Hoboken, N.J. : Wiley-Interscience, 2005.
Work Placement	There is no internship or practice

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Relations Between Physico-Chemical and Physical Properties and Activities of Drugs	
Week - 2		Some Information on Enzymology	
Week - 3		Enzymatic Reaction rate, Michaelis Constant	
Week - 4		The Mechanism of Enzymatic Reactions	
Week - 5		Active Site of Enzymes	
Week - 6		Enzymatic Inhibition and Different Inhibition Types	
Week - 7		Physical Appearance of Enzyme-Inhibitor Relations	
Week - 8		Solubility and Pharmacologic Activity	
Week - 9		Interfacial Tension and Pharmacologic Activity	
Week - 10		The Relations Between Electronic and Magnetic Properties and Pharmacological Activities	
Week - 11		The Correlation Between Electronic Parameters and Pharmacological Activity	
Week - 12		Mono Amino Oxidase (MAO) Enzyme, MAO Enzymes in Different Structures, Phsyological Importance of MAO Enzyme, The Inhibition of MAO Enzyme	
Week - 13		Acetylcholine Esterase Enzyme, The Inhibition of Acetylcholine Esterase	

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 14		Carbonic Anhydrase Enzyme	

Learning Outcomes

#	Learning Outcome
1	The researcher/student will be able to debate reaction kinetic in drug-enzyme relationship
2	The researcher/student will be able to distinguish enzymatic inhibition types
3	The researcher/student will be able to debate properties of some enzymes

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.