Course Syllabus

Code - Course Title	**ECZ837 - Drug Screening Strategy**
Course Type	X. SEMESTER
Laboratory + Practice	1+0
ECTS	**1.5**
Language of Instruction	Türkçe
Course Type	Area of Specialization II
Course Instructor(s)	PROF. DR. RANA ARSLAN

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.
Work Placement	Not Applicable

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Introduction to pharmacology and its functional role in the pharmacy, knowledge of homeostasis, description of disease state, general characteristics of progressive and non-progressive diseases	
Week - 2		Description of drug concept, types of therapy and pharmacotherapy: descriptive differences between radical, symptomatic and palliative therapies, subdivisions of pharmacology: pharmacodynamics, pharmacokinetics, etc.	
Week - 3		Phases of a new drug development: preclinical phase, clinical phases (phase I, II, III and IV studies), safety studies, pharmacovigilance, post-marketing surveillance, importance of pharmacoepidemiological surveys	
Week - 4		Mechanisms of drug action:Non-specific and specific mechanisms (sites of action for drugs), receptors, ion channels, ion pumps, enzymes, pharmacodynamic interactions	
Week - 5		Drug receptors: Receptor theories, structures of receptors and their structural types, receptor biosynthesis and turnovers, drugs affecting receptors, Ion channels: Ion channel types and affecting drugs	
Week - 6		Drug receptors: Receptor theories, structures of receptors and their structural types, receptor biosynthesis and turnovers, drugs affecting receptors, Ion channels: Ion channel types and affecting drugs	
Week - 7		Explanation of the in vitro research techniques used in new drug development.	
Week - 8		Explanation of the in vivo research techniques used in new drug development.	
Week - 9		Used in the experiments give information about animals and ethical guidelines must be followed.	

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 10		Give information about blood pressure measurement methods .	
Week - 11		Explanation of behavioral experiment.	
Week - 12		Explanation of analgesic and anti-inflammatory test methods.	
Week - 13		Laboratory demonstration	
Week - 14		Laboratory demonstration	

Learning Outcomes

#	Learning Outcome
1	explain the general informations about drug screening techniques.
2	classify the laboratory research techniques used in drug screening.
3	explain the drug screening techniques for pre- and post-clinical studies.

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	60
Homework	1	40
	Sum (%)	**100**