Course Syllabus

Code - Course Title	**FKL534 - Pharmacology of Aautonomic Nervous System**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	PROF. DR. ÖZGÜR DEVRİM CAN

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	Oğuz Kayaalp - Akılcıl Tedavi Yönünden Tıbbi Farmakoloji
Work Placement	Not Applicable

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		organization of the autonomic nervous system, synapse and neurotransmitters.	
Week - 2		Receptors of the autonomic nervous system, their distributions and structures.	
Week - 3		Post receptor mechanisms, G proteins and ion channels.	
Week - 4		Distribution, synthesis, structure, actions, effects on receptors and inactivations of autonomic neurotransmitters.	
Week - 5		parasympathomimetics, cholinergic receptor agonists	
Week - 6		parasympathomimetics, anticholinesterases	
Week - 7		sympathomimetics	
Week - 8		sympatholytics, alpha adrenergic antagonists	
Week - 9		sympatholytics, beta adrenergic antagonists, adrenergic neuron blockers	
Week - 10		interactions of drugs of sympathetic system and cardiorenal system.	
Week - 11		Pharmacology of autonomic gangia and drugs.	
Week - 12		recent findings of drugs of autonomic nervous system	
Week - 13		Applications, Discussion and Evaluation	

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 14		Applications, Discussion and Evaluation	

Learning Outcomes

#	Learning Outcome
1	1. Will be able to explain structure and function of the autonomic nervous system in terms of drug actions. 1.1. define the structural properties of aıtonomic nervous system on neuron 1.2. define the role and importance of drugs of aıtonomic nervous system on synaptic structure and function. 1.3. define the role ofaıtonomic neurotransmitters in drug actions. 1.4. define functional relationships and interactions between central and autonomic nervous system. 2. Will be able to express the role of importance of aıtonomic neurotransmitters for drugs of nervous system 2.1. List basic properties ofaıtonomic receptors. 2.2. Explain importance of sympathetic and parasympathetic receptor agonists on drug actions. 2.3. Explain importance of sympathetic and parasympathetic receptor antgonists on drug actions. 3. Will be able to analyse mechanism of action, use and effects of drugs of autonomic nervous system. 3.1. Analyse mechanism of actions of the drugs of autonomic nervous system. 3.2. Analyse mechanism of actions and side effects of the drugs of autonomic nervous system 3.3. Interpret use of autonomic nervous system drugs.

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.