Course Syllabus

Code - Course Title	**ECZ396 - Pharmacy and Basic Medical Sciences II**
Course Type	VI. SEMESTER
Laboratory + Practice	6+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	PROF. DR. ÖZGÜR DEVRİM CAN, PROF. DR. ÜMİDE DEMİR ÖZKAY

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.

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Anatomy and Physiology of Central Nervous System	
Week - 2		Anatomy and Physiology of Central Nervous System	
Week - 3		Anatomy and Physiology of Central Nervous System	
Week - 4		Non-steroidal Anti-inflammatory Drugs	
Week - 5		Module I Exam	
Week - 6		Opioid Analgesics	
Week - 7		Medications Used in Mood Disorders	
Week - 8		Medications Used in the Treatment of Psychotic Disorders, Skeletal Muscle Relaxants	
Week - 9		Adverse Effects Induced by Central Nervous System Drugs	
Week - 10		Module II Exam	
Week - 11		Medications Used in the Treatment of Dementia and Alzheimer's Disease, Hypnotic and Anxiolytic Drugs	
Week - 12		Medications Used in the Treatment of Epilepsy, Central Nervous System Stimulants and Weight Loss Drugs	
Week - 13		Medications Used in the Treatment of Parkinson's Disease and Other Movement Disorders	
Week - 14		General Anesthetics, Local Anesthetics	

Learning Outcomes

#	Learning Outcome
1	Will be able to explain the brain.
2	Will be able to define the spinal cord.
3	Will be able to explain general concepts related to the physiology of the central nervous system.
4	Will be able to define the amine-based neuromediators of the central nervous system.
5	Will explain the amino acid-based neurotransmitters of the central nervous system.
6	Will explain the peptide-based neurotransmitters of the central nervous system.
7	Will explain sensory receptors and neuronal circuits in information processing.
8	Will explain the general organization of somatic sensations, including touch and proprioception.
9	Will explain somatic sensations: pain, headache, and thermal sensations.
10	Will explain the motor functions of the spinal cord: spinal reflexes.
11	Will explain the control of motor functions by the cortex and brainstem.
12	Will explain the contributions of the cerebellum and basal ganglia to general motor control.
13	Will explain the mental functions of the brain cortex.
14	Will explain the brain mechanisms related to behavior and motivation – the limbic system and hypothalamus.
15	Will explain the brain's activity states – sleep, brain waves, epilepsy, psychoses, and dementia.
16	Will explain brain blood flow, cerebrospinal fluid, and brain metabolism.
17	Will define skeletal muscle excitation: neuromuscular transmission and excitation-contraction coupling.
18	Will be able to explain skeletal muscle contraction.
19	Will be able to regulate body temperature and define fever.
20	Will be able to discuss the regulation of nutrition.
21	Will be able to explain leukocytes, granulocytes, the monocyte-macrophage system, and inflammation.
22	Will be able to define the drugs used in mood disorders.
23	Will be able to define the drugs used in the treatment of psychotic disorders.
24	Will be able to define opioid analgesics.
25	Will be able to define non-steroidal anti-inflammatory drugs (NSAIDs).
26	Will be able to define the drugs used in the treatment of Parkinson's disease and other movement disorders.
27	Will be able to define the drugs used in the treatment of Alzheimer's disease.
28	Will be able to define general anesthetics.
29	Will be able to define local anesthetics.
30	Will be able to define skeletal muscle relaxants.
31	Will be able to define hypnotic-sedative drugs.
32	Will be able to define anxiolytic drugs.
33	Will be able to define antiepileptic drugs.
34	Will be able to explain the adverse effects induced by drugs used in mood disorders.
35	Will be able to explain the adverse effects induced by drugs used in the treatment of psychotic disorders.

Learning Outcomes

#	Learning Outcome
36	Will be able to explain the adverse effects induced by opioid analgesics.
37	Will be able to explain the adverse effects induced by non-steroidal anti-inflammatory drugs (NSAIDs).
38	Will be able to explain the adverse effects induced by the drugs used in the treatment of Parkinson's disease and other movement disorders.
39	Will be able to explain the adverse effects induced by the drugs used in the treatment of Alzheimer's disease.
40	Will be able to explain the adverse effects induced by general anesthetics.
41	Will be able to explain the adverse effects induced by local anesthetics.
42	Will be able to explain the adverse effects induced by skeletal muscle relaxants.
43	Will be able to explain the adverse effects induced by hypnotic-sedative 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.