## 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.*