KYRENIA UNIVERSITY FACULTY OF MEDICINE
2023-2024 EDUCATIONAL YEAR
PHASE II
NEUROLOGICAL SCIENCES COMMITTEE
(18 SEPTEMBER -27 OCTOBER 2023)

COURSES	THEORETICAL	LAB	TOTAL
Anatomy	46	9X2	64
Biophysics	10	-	10
Histology and Embryology	11	3X2	17
Physiology	39	5X2	49
Medical History and Ethics	4	-	4
TOTAL	**110**	**34**	**144**

Dean	Prof.Dr. Rüveyde BUNDAK
Vice Dean	Prof. Dr. Candan ÖZOĞUL
Coordinator	Dr. Mete Özkoç

MEMBERS OF COMMITTEE

ANATOMY		PHYSIOLOGY		HISTOLOGY & EMBRYLOGY	MEDICAL HISTORY AND ETHICS
Yrd. Doç. Dr. Shahnaz Sabetkam	Yrd. Doç. Dr. Yavuz Arıcan	Prof. Dr. Deniz Erbaş	Prof. Dr. Ethem Gelir	Dr. Candan Özoğul	Dr . Cemal Güvercin
Prof. Dr. Nurettin Oğuz	Prof. Dr. Nail Bulakbaşı	Prof. Dr. Cem Şeref Bediz	Prof. Dr..Barış Çakır	Dr. Bekir Uğur Ergür	**BIOPHYSICS**
Dr. İskender Yılmaz		Dr..Gülden Madi		Dr. Güven Erbil	Dr. Ferit Pehlivan

NEUROLOGICAL SCIENCES COMMITTEE

Aim

To be able to tell the anatomical, histological and physiological information about the embryonic development, developmental anomalies and malformations of the nervous system, the structures and functions of the central nervous system, to be able to explain the clinical connections, to be aware of the deontology, basic concepts and professional rules

LEARNING OUTCOMES

Knowledge Based

To be able to:

- explain legislation for the practice of the medical profession, basic knowledge of medicine, approaches to medicine, physician-patient relationship (evolutionary development and current situation, expected physician-patient relationship)
- list how the nervous system develops from germ layers during each week of development
- say the anatomical location of central nervous system structures
- describe the histological properties of central nervous system cells
- explain how the motor and sensory functions of the nervous system occur at the level of the medulla spinalis, brainstem and cortex
- count cranial nerves
- describe the histological and anatomical structure of the brain, tell the role of motor control and motor learning and related mechanisms
- describe the histological structure of spinal cord of medulla, describe descending pathways, define spinal reflexes
- describe eye anatomy and visual pathways, ear anatomy and hearing pathways, describe the physiological mechanisms of vision and hearing
- explain the autonomic nervous system
- explain the advanced functions of the nervous system, such as conditioned reflexes, learning and memory, with physiological mechanisms
- discuss the electrical properties of EEG and brain

Application Based (practical skills)

- able to distinguish and show macroscopic and microscopic structures of the central nervous system
- can practise the anatomical structure of ear and eye
- must be able to distinguish the gray and white layers of the brain at microscope
- distinguish gray and white layers of medulla spinalis, front and rear horn on microscope
- must show physiological, histological features of eye and ear
- must be able to prepare decerebre and spinal frog preparations. M. Spinalis reflexes should be shown on experiment animal
- can show various reflexes in man
- be able to distinguish reaction time and reflex time

Skills Based (intellectual and transferable skills)

-be aware of the importance of cadaver use in anatomy education
-consider the role of microscopy in histology education
-be aware of the importance of ethical rules in the use of experimental animals and practices on human.

1 st week	18.09.2023 MONDAY	19.09.2023 TUESDAY	20.09.2023 WEDNESDAY	21.09.2023 THURSDAY	22.09.2023 FRIDAY
08:30-09:15	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	Cerebellum Dr. Sabetkam	Nervous system histology Dr. Erbil
09:30-10:15	General morphology of the nervous system Dr. Sabetkam	FREE STUDY TIME	FREE STUDY TIME	Cerebellum Dr. Sabetkam	Nervous system histology Dr. Erbil
10:30-11:15 11:30-12:15	General morphology of the nervous system Dr. Sabetkam FREE STUDY TIME	General organization of central nervous system Dr. Madi Somatovisseral sensory system Dr. Madi	Introduction to the Concepts of Ethics-Deontology-Bioethics-Morals (Online) Dr. Güvercin Medical Methodology (Online) Dr. Güvercin	Diencephalon and 3rd ventricle Dr. Sabetkam Diencephalon and 3rd ventricle Dr. Sabetkam	Nervous system histology Dr. Erbil Nervous system histology Dr. Erbil
13:30-14:15	Nervous system Embryology Dr. Ergür	Internal structure of the spinal cord Dr. Sabetkam	Mesencephalon Dr. Sabetkam	Somatovisseral sensory system Dr. Madi	Pain sensation Dr. Erbaş
14:30-15:15	Nervous system Embryology Dr. Ergür	Medulla oblongata, pons, and 4.ventricle Dr. Sabetkam	Mesencephalon Dr. Sabetkam	Somatovisseral sensory system Dr. Madi	Pain sensation Dr. Erbaş
15:30-16:15	Nervous system Embryology Dr. Ergür	Medulla oblongata, pons, and 4.ventricle Dr. Sabetkam	FREE STUDY TIME	The functions of thalamus and somatosensory cortex Dr. Madi	FREE STUDY TIME
16:30-17:15	FREE STUDY TIME	Medulla oblongata, pons, and 4.ventricle Dr. Sabetkam	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME

2 nd week	25.09.2023 MONDAY	26.09.2023 TUESDAY	27.09.2023 WEDNESDAY	28.09.2023 THURSDAY	29.09.2023 FRIDAY
08:30-09:15	Telencefalon, basal nuclei and lateral ventricles (Online) Dr.Arıcan	**FREE STUDY TIME**	**FREE STUDY TIME**	**Anatomy Lab (1)**	CNS ascending and descending tracts Dr. Arıcan
09:30-10:15	Telencefalon, basal nuclei and lateral ventricles (Online) Dr.Arıcan	CNS ascending and descending tracts Dr. Sabetkam	Descending control of spinal motor systems Dr. Madi	**Anatomy Lab (1)**	CNS ascending and descending tracts Dr. Arıcan
10:30-11:15	Telencefalon, basal nuclei and lateral ventricles (Online) Dr.Arıcan	CNS ascending and descending tracts Dr. Sabetkam	Descending control of spinal motor systems Dr. Madi	**Anatomy Lab(1)**	Cranial nerves Dr. Arıcan
11:30-12:15	Telencefalon, basal nuclei and lateral ventricles (Online) Dr.Arıcan	CNS ascending and descending tracts Dr. Sabetkam	Descending control of spinal motor systems Dr. Madi	**Anatomy Lab (1)**	Cranial nerves Dr. Arıcan
13:30-14:15	The control of motor function by medulla spinalis (Online) Dr. Çakır	The control of motor function by brain stem (Online) Dr. Çakır	**Physiology Lab (1)**	**Histology Lab (1)**	Cranial nerves Dr. Arıcan
14:30-15:15	The control of motor function by medulla spinalis (Online) Dr. Çakır	The control of motor function by brain stem (Online) Dr. Çakır	**Physiology Lab (1)**	**Histology Lab (1)**	Cranial nerves Dr. Arıcan
15:30-16:15	The control of motor function by medulla spinali (Online) Dr. Çakır	The control of motor function by brain stem (Online) Dr. Çakır	**Physiology Lab (1)**	**Histology Lab (1)**	**FREE STUDY TIME**
16:30-17:15	**FREE STUDY TIME**	Motor cortex (Online) Dr. Çakır	**Physiology Lab (1)**	**Histology Lab (1)**	**FREE STUDY TIME**

3 rd week	02.10.2023 MONDAY	03.10.2023 TUESDAY	04.10.2023 WEDNESDAY	05.10.2023 THURSDAY	06.10.2023 FRIDAY
08:30-09:15	Meninges and vessels of the brain Dr. Arıcan	**Anatomy Lab (2)**	**FREE STUDY TIME**	**FREE STUDYTIME**	Brain Electrical Activity and EEG (Online) Dr. Pehlivan
09:30-10:15	Meninges and vessels of the brain Dr. Arıcan	**Anatomy Lab (2)**	The role of cerebellum in the control of motor functions Dr. Erbaş	Spinal meninges, vessels and cerebrospinal fluid Dr. Sabetkam	Evoked Potentials and Averaging, Basic Principles of Biological Control (Online) Dr. Pehlivan
10:30-11:15	Limbic system Dr. Dr. Arıcan	**Anatomy Lab (2)**	The role of cerebellum in the control of motor functions Dr. Erbaş	Autonomic nervous system (sympathetic) Dr. Sabetkam	Limbic system and monoaminergic system (Online) Dr. Gelir
11:30-12:15	Limbic system Dr. Arıcan	**Anatomy Lab (2)**	Neural plasticity Dr. Madi	Autonomic nervous system (sympathetic) Dr. Sabetkam	Limbic system and monoaminergic system (Online) Dr. Gelir
13:30-14:15	The role of basal ganglia in the control of motor functions (Online) Dr. Çakır	**Physiology Lab (2)**	**Physiology Lab (3)**	Autonomic nervous system (parasympathetic) Dr. Sabetkam	Medicine and Medical Scientific Knowledge (Online) Dr. Güvercin
14:30-15:15	The role of basal ganglia in the control of motor functions (Online) Dr. Çakır	**Physiology Lab (2)**	**Physiology Lab (3)**	Eye anatomy and visual pathways Dr. Sabetkam	Physician-Patient Relationship (Online) Dr. Güvercin
15:30-16:15	The role of basal ganglia in the control of motor functions (Online) Dr. Çakır	**Physiology Lab (2)**	**Physiology Lab (3)**	Eye anatomy and visual pathways Dr. Sabetkam	**FREE STUDY TIME**
16:30-17:15	Cerebral cortex and high functions of the nervous system (Online) Dr. Çakır	**Physiology Lab (2)**	**Physiology Lab (3)**	**FREE STUDY TIME**	**FREE STUDY TIME**

4 th week	09.10.2023 MONDAY	10.10.2023 TUESDAY	11.10.2023 WEDNESDAY	12.10.2023 THURSDAY	13.10.2023 FRIDAY
08:30-09:15	Ear anatomy and hearing pathways Dr. Arıcan	Eye anatomy and visual pathways Dr. Sabetkam	**FREE STUDY TIME**	**Anatomy Lab(4)**	**FREE STUDY TIME**
09:30-10:15	Ear anatomy and hearing pathways Dr. Arıcan	Eye anatomy and visual pathways Dr. Sabetkam	**FREE STUDY TIME**	**Anatomy Lab(4)**	Physiology of sleep Dr. Gelir
10:30-11:15	Ear anatomy and hearing pathways Dr. Arıcan	Clinical Anatomy Dr. Sabetkam	Eye emb. and histology Dr.Özoğul	**Anatomy Lab(4)**	EEG Epilepsy Sleep Dr. Gelir
11:30-12:15	Ear anatomy and hearing pathways Dr. Arıcan	Clinical Anatomy Dr. Sabetkam	Eye emb. and histology Dr.Özoğul	**Anatomy Lab(4)**	EEG Epilepsy Sleep Dr. Gelir
13:30-14:15	**Anatomy Lab(3)** Dr. Arıcan	Sensory Biophysics General Concepts, Laws of Psychophysics (Online) Dr. Pehlivan	Central Control of Autonomic Function Dr. Bediz	**Histology Lab (2)**	Visual Acuity, Functions of the Iris (Online) Dr. Pehlivan (Online) Dr. Pehlivan
14:30-15:15	**Anatomy Lab(3)** Dr. Arıcan	Light and Vision, Visual Defects (Online) Dr. Pehlivan	Central Control of Autonomic Function Dr. Bediz	**Histology Lab (2)**	Photoreceptors, Electroretinogram (Online) Dr. Pehlivan
15:30-16:15	**Anatomy Lab(3)** Dr. Arıcan	**FREE STUDY TIME**	**FREE STUDY TIME**	**Histology Lab (2)**	Depth Vision, Color Vision, Vision Aids (Online) Dr. Pehlivan
16:30-17:15	**Anatomy Lab(3)** Dr. Arıcan	**FREE STUDY TIME**	**FREE STUDY TIME**	**Histology Lab (2)**	**FREE STUDY TIME**

5 th week	16.10.2023 MONDAY	17.10.2023 TUESDAY	18.10.2023 WEDNESDAY	19.10.2023 THURSDAY	20.10.2023 FRIDAY
08:30-09:15	FREE STUDY TIME	Vision Dr. Gelir	Ear emb and histology Dr.Özoğul	Anatomy Lab(5)	FREE STUDY TIME
09:30-10:15	Clinical and radiographic Anatomy Dr. Sabetkam	Vision Dr. Gelir	Ear emb and histology Dr.Özoğul	Anatomy Lab(5)	FREE STUDY TIME
10:30-11:15	Clinical and radiographic Anatomy Dr. Sabetkam	Vision Dr. Gelir	Hearing and vestibular system Dr. Gelir	Anatomy Lab(5)	Taste and olfaction Dr. Gelir
11:30-12:15	radiographic Anatomy Dr. Sabetkam	FREE STUDY TIME	Hearing and vestibular system Dr. Gelir	Anatomy Lab(5)	Taste and olfaction Dr. Gelir
13:30-14:15	Histology Lab (3)	Sound Waves, Sensory Properties of Sound (Online) Dr. Pehlivan	Conditioned reflex, learning and memory Dr. Gelir	Anatomy Lab(6)	Physiology Lab (4)
14:30-15:15	Histology Lab (3)	Processing of Sound Waves in the Ear (Online) Dr. Pehlivan	Conditioned reflex, learning and memory Dr. Gelir	Anatomy Lab(6)	Physiology Lab (4)
15:30-16:15	Histology Lab (3)	Sound Analysis, Hearing aids. Basic Concepts of Information Transfer in Biological Systems (Online) Dr. Pehlivan	FREE STUDY TIME	Anatomy Lab(6)	Physiology Lab (4)
16:30-17:15	Histology Lab (3)		FREE STUDY TIME	Anatomy Lab(6)	Physiology Lab (4)

6 th week	23.10.2023 MONAY	24.10.2023 TUESDAY	25.10.2023 WEDNESDAY	26.10.2023 THURSDAY	27.10.2023 FRIDAY
08:30-09:15	Anatomy Lab(7)	Anatomy Lab(8)	PHASE II APPLIED EXAM	PHASE II APPLIED EXAM	PHASE II THEORICAL EXAM
09:30-10:15	Anatomy Lab(7)	Anatomy Lab(8)	PHASE II APPLIED EXAM	PHASE II APPLIED EXAM	PHASE II THEORICAL EXAM
10:30-11:15	Anatomy Lab(7)	Anatomy Lab(8)	PHASE II APPLIED EXAM	PHASE II APPLIED EXAM	PHASE II THEORICAL EXAM
11:30-12:15	Anatomy Lab(7)	Anatomy Lab(8)	PHASE II APPLIED EXAM	PHASE II APPLIED EXAM	PHASE II THEORICAL EXAM
13:30-14:15	Physiology Lab (5)	Anatomy Lab(9)	PHASE II APPLIED EXAM	PHASE II APPLIED EXAM	PHASE II THEORICAL EXAM
14.30-15.15	Physiology Lab (5)	Anatomy Lab(9)	PHASE II APPLIED EXAM	PHASE II APPLIED EXAM	PHASE II THEORICAL EXAM
15:30-16:15	Physiology Lab (5)	Anatomy Lab(9)	PHASE II APPLIED EXAM	PHASE II APPLIED EXAM	PHASE II THEORICAL EXAM
16:30-17:15	Physiology Lab (5)	Anatomy Lab(9)	PHASE II APPLIED EXAM	PHASE II APPLIED EXAM	PHASE II THEORICAL EXAM