

KYRENIA UNIVERSITY FACULTY OF MEDICINE
2024-2025 EDUCATIONAL YEAR
PHASE II
NEUROLOGICAL SCIENCES COMMITTEE
(16 SEPTEMBER -25 OCTOBER 2024)

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
Free Time	54	-	-
TOTAL	162	34	196

Dean	Prof.Dr. Rveyde BUNDAK
Vice Dean	Prof. Dr. Candan ZOĐUL
Coordinator	Asst. Prof. Dr. Mete ZKOĐ

COMMITTEE MEMBERS					
ANATOMY		PHYSIOLOGY		HISTOLOGY & EMBRYOLOGY	MEDICAL HISTORY AND ETHICS
Yrd. DoĐ. Dr. Shahnaz Sabetkam	Yrd. DoĐ. Dr. Yavuz Arıcan	Prof. Dr. Deniz ErbaŐ	Prof. Dr. Ethem Gelir	Prof. Dr. Candan zoĐul	Prof. Dr . Cemal Gvercin
Prof. Dr. Nurettin OĐuz	DoĐ. Dr. Mehmet Alp Dirik	Prof. Dr. Cem Őeref Bediz	Prof. Dr. Ethem Gelir	Prof. Dr. Bekir UĐur Ergr	BIOPHYSICS
Dr. İskender Yılmaz		Asst. Prof. Dr. Hanadi Sourg		Prof. Dr. Gven Erbil	Prof. 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	16.09.2024 MONDAY	17.09.2024 TUESDAY	18.09.2024 WEDNESDAY	19.09.2024 THURSDAY	20.09.2024 FRIDAY
08:30-09:15	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	Cerebellum Dr. Sabetkam	Anatomy Lab (1)
09:30-10:15	General morphology of the nervous system Dr. Sabetkam	FREE STUDY TIME	FREE STUDY TIME	Cerebellum Dr. Sabetkam	Anatomy Lab (1)
10:30-11:15	General morphology of the nervous system Dr. Sabetkam	FREE STUDY TIME	Mesencephalon Dr. Sabetkam	Diencephalon and 3rd ventricle Dr. Sabetkam	Anatomy Lab (1)
11:30-12:15	General organization of central nervous system Dr. Hanadi	FREE STUDY TIME	Mesencephalon Dr. Sabetkam	Diencephalon and 3rd ventricle Dr. Sabetkam	Anatomy Lab(1)
12:15-13:30	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK
13:30-14:15	Somato-visceral sensory system Dr. Hanadi	Internal structure of the spinal cord Dr. Sabetkam	Somato-visceral sensory system Dr. Hanadi	Pain sensation Dr. Erbaş	FREE STUDY TIME
14:30-15:15	FREE STUDY TIME	Medulla oblongata, pons, and 4.ventricle Dr. Sabetkam	Somato-visceral sensory system Dr. Hanadi	Pain sensation Dr. Erbaş	FREE STUDY TIME
15:30-16:15	FREE STUDY TIME	Medulla oblongata, pons, and 4.ventricle Dr. Sabetkam	The functions of thalamus and somatosensory cortex Dr. Hanadi	FREE STUDY TIME	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	23.09.2024 MONDAY	24.09.2024 TUESDAY	25.09.2024 WEDNESDAY	26.09.2024 THURSDAY	27.09.2024 FRIDAY
08:30-09:15	Telencefalon, basal nuclei and lateral ventricles Dr. Arıcan	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	Histology Lab (1) Physiology Lab (1)
09:30-10:15	Telencefalon, basal nuclei and lateral ventricles Dr. Arıcan	CNS ascending and descending tracts Dr. Arıcan	The control of motor function by medulla spinalis Dr. Erbaş	FREE STUDY TIME	Histology Lab (1) Physiology Lab (1)
10:30-11:15	Telencefalon, basal nuclei and lateral ventricles Dr. Arıcan	CNS ascending and descending tracts Dr. Arıcan	The control of motor function by medulla spinalis Dr. Erbaş	CNS ascending and descending tracts Dr. Sabetkam	Histology Lab (1) Physiology Lab (1)
11:30-12:15	Telencefalon, basal nuclei and lateral ventricles Dr. Arıcan	CNS ascending and descending tracts Dr. Arıcan	The control of motor function by medulla spinalis Dr. Erbaş	CNS ascending and descending tracts Dr. Sabetkam	Histology Lab (1) Physiology Lab (1)
12:15-13:30	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK
13:30-14:15	Anatomy Lab (2)	Anatomy Lab (3)	Nervous system Embryology Dr. Özoğul	Nervous system histology Dr. Ergür	FREE STUDY TIME
14:30-15:15	Anatomy Lab (2)	Anatomy Lab (3)	Nervous system Embryology Dr. Özoğul	Nervous system histology Dr. Ergür	FREE STUDY TIME
15:30-16:15	Anatomy Lab(2)	Anatomy Lab (3)	Nervous system Embryology Dr. Özoğul	Nervous system histology Dr. Ergür	FREE STUDY TIME
16:30-17:15	Anatomy Lab(2)	Anatomy Lab(3)	FREE STUDY TIME	Nervous system histology Dr. Ergür	FREE STUDY TIME

3 rd week	30.09.2023 MONDAY	01.10.2024 TUESDAY	02.10.2024 WEDNESDAY	03.10.2024 THURSDAY	04.10.2023 FRIDAY
08:30-09:15	Cranial nerves Dr. Arican	FREE STUDY TIME	The control of motor function by brain stem Dr. Hanadi	FREE STUDY TIME	The role of basal ganglia in the control of motor functions Dr. Hanadi
09:30-10:15	Cranial nerves Dr. Arican	Limbic system Dr. Arican	The control of motor function by brain stem Dr. Hanadi	Descending control of spinal motor systems Dr. Hanadi	The role of basal ganglia in the control of motor functions Dr. Hanadi
10:30-11:15	Cranial nerves Dr. Arican	Limbic system Dr. Arican	The control of motor function by brain stem Dr. Hanadi	Descending control of spinal motor systems Dr. Hanadi	The role of basal ganglia in the control of motor functions Dr. Hanadi
11:30-12:15	Cranial nerves Dr. Arican	Spinal meninges, vessels and cerebrospinal fluid Dr. Arican	Motor cortex Dr. Hanadi	Descending control of spinal motor systems Dr. Hanadi	Cerebral cortex and high functions of the nervous system Dr. Hanadi
12:15-13:30	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK
13:30-14:15	Meninges and vessels of the brain Dr. Arican	Anatomy Lab (4)	Autonomic nervous system (sympathetic) Dr. Sabetkam	FREE STUDY TIME	FREE STUDY TIME
14:30-15:15	Meninges and vessels of the brain Dr. Arican	Anatomy Lab (4)	Autonomic nervous system (sympathetic) Dr. Sabetkam	FREE STUDY TIME	FREE STUDY TIME
15:30-16:15	FREE STUDY TIME	Anatomy Lab (4)	Autonomic nervous system (sympathetic) Dr. Sabetkam	FREE STUDY TIME	FREE STUDY TIME
16:30-17:15	FREE STUDY TIME	Anatomy Lab (4)	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME

4 th week	07.10.2023 MONDAY	08.10.2023 TUESDAY	09.10.2024 WEDNESDAY	10.10.2024 THURSDAY	11.10.2024 FRIDAY
08:30-09:15	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME
09:30-10:15	FREE STUDY TIME	Physiology of sleep Dr. Gelir	FREE STUDY TIME	Ear anatomy Dr. Sabetkam	FREE STUDY TIME
10:30-11:15	The role of cerebellum in the control of motor functions Dr. Gelir	EEG Epilepsy Sleep Dr. Gelir	Eye anatomy Dr. Sabetkam	Ear anatomy Dr. Sabetkam	Central Control of Autonomic Function Dr. Bediz
11:30-12:15	The role of cerebellum in the control of motor functions Dr. Gelir	EEG Epilepsy Sleep Dr. Gelir	Eye anatomy and visual pathways Dr. Sabetkam	Ear anatomy and hearing pathways Dr. Sabetkam	Central Control of Autonomic Function Dr. Bediz
12:15-13:30	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK
13:30-14:15	Limbic system and monoaminergic system Dr. Gelir	FREE STUDY TIME	Physiology Lab (2) Histology Lab (2)	Sensory Biophysics General Concepts, Laws of Psychophysics (Online)	Anatomy Lab (5)
14:30-15:15	Limbic system and monoaminergic system Dr. Gelir	Brain Electrical Activity and EEG (Online) Dr. Pehlivan	Physiology Lab (2) Histology Lab (2)	Light and Vision, Visual Defects (Online) Dr. Pehlivan	Anatomy Lab (5)
15:30-16:15	FREE STUDY TIME	Evoked Potentials and Averaging, Basic Principles of Biological Control	Physiology Lab (2) Histology Lab (2)	FREE STUDY TIME	Anatomy Lab (5)
16:30-17:15	FREE STUDY TIME	FREE STUDY TIME	Physiology Lab (2) Histology Lab (2)	FREE STUDY TIME	Anatomy Lab (5)

5 th week	14.10.2023 MONDAY	15.10.2023 TUESDAY	16.10.2023 WEDNESDAY	17.10.2023 THURSDAY	18.10.2024 FRIDAY
08:30-09:15	FREE STUDY TIME	Clinical Anatomy Dr. Sabetkam	Anatomy Lab(6)	FREE STUDY TIME	Anatomy Lab (7)
09:30-10:15	FREE STUDY TIME	Clinical Anatomy Dr. Sabetkam	Anatomy Lab (6)		Anatomy Lab (7)
10:30-11:15	Radiographic Anatomy Dr. Dirik	Clinical Anatomy Dr. Sabetkam	Anatomy Lab (6)		Anatomy Lab (7)
11:30-12:15	Radiographic Anatomy Dr. Dirik	Clinical Anatomy Dr. Sabetkam	Anatomy Lab (6)		Anatomy Lab (7)
12:15-13:30	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK
13:30-14:15	Eye emb. and histology Dr.Erbil	Ear emb and histology Dr.Erbil	Sound Waves, Sensory Properties of Sound (Online) Dr. Pehlivan	Histology Lab (3)	FREE STUDY TIME
14:30-15:15	Eye emb. and histology Dr.Erbil	Ear emb and histology Dr.Erbil	Processing of Sound Waves in the Ear (Online) Dr. Pehlivan	Histology Lab (3)	Introduction to the Concepts of Ethics-Deontology-Bioethics-Morals (Online) Dr. Güvercin
15:30-16:15	FREE STUDY TIME	FREE STUDY TIME	Sound Analysis, Hearing aids. Basic Concepts of Information Transfer in Biological Systems (Online) Dr. Pehlivan	Histology Lab (3)	Medical Methodology (Online) Dr. Güvercin
16:30-17:15	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	Histology Lab (3)	FREE STUDY TIME

6 th week	21.10.2023 MONAY	22.10.2023 TUESDAY	23.10.2023 WEDNESDAY	24.10.2023 THURSDAY	25.10.2023 FRIDAY
08:30-09:15	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	Anatomy Lab (8)
09:30-10:15	Vision Dr. Gelir	FREE STUDY TIME	Visual Acuity, Functions of the Iris (Online) Dr. Pehlivan	FREE STUDY TIME	Anatomy Lab (8)
10:30-11:15	Vision Dr. Gelir	Hearing and vestibular system Dr. Gelir	Photoreceptors, Electroretinogram (Online) Dr. Pehlivan	Taste and olfaction Dr. Gelir	Anatomy Lab (8)
11:30-12:15	Vision Dr. Gelir	Hearing and vestibular system Dr. Gelir	Depth Vision, Color Vision, Vision Aids (Online) Dr. Pehlivan	Taste and olfaction Dr. Gelir	Anatomy Lab (8)
12:15-13:30	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK
13:30-14:15	Physiology Lab (3)	Conditioned reflex, learning and memory Dr. Gelir	Physiology Lab (4)	Physiology Lab (5)	FREE STUDY TIME
14.30-15.15	Physiology Lab (3)	Conditioned reflex, learning and memory Dr. Gelir	Physiology Lab (4)	Physiology Lab (5)	Medicine and Medical Scientific Knowledge (Online) Dr. Güvercin
15:30-16:15	Physiology Lab (3)	FREE STUDY TIME	Physiology Lab (4)	Physiology Lab (5)	Physician-Patient Relationship (Online) Dr. Güvercin
16:30-17:15	Physiology Lab (3)	FREE STUDY TIME	Physiology Lab (4)	Physiology Lab (5)	FREE STUDY TIME

7 th week	28.10.2023 MONAY	29.10.2023 TUESDAY	30.10.2023 WEDNESDAY	31.10.2023 THURSDAY	01.11.2023 FRIDAY
08:30-09:15	Anatomy Lab (9)	HOLIDAY	PHASE II APPLIED EXAM	PHASE II APPLIED EXAM	PHASE II THEORETICAL EXAM
09:30-10:15	Anatomy Lab (9)		PHASE II APPLIED EXAM	PHASE II APPLIED EXAM	PHASE II THEORETICAL EXAM
10:30-11:15	Anatomy Lab (9)		PHASE II APPLIED EXAM	PHASE II APPLIED EXAM	PHASE II THEORETICAL EXAM
11:30-12:15	Anatomy Lab (9)		PHASE II APPLIED EXAM	PHASE II APPLIED EXAM	PHASE II THEORETICAL EXAM
12:15-13:30	LUNCH BREAK		LUNCH BREAK	LUNCH BREAK	LUNCH BREAK
13:30-14:15	FREE STUDY TIME		PHASE II APPLIED EXAM	PHASE II APPLIED EXAM	PHASE II THEORETICAL EXAM
14.30-15.15	FREE STUDY TIME		PHASE II APPLIED EXAM	PHASE II APPLIED EXAM	PHASE II THEORETICAL EXAM
15:30-16:15	FREE STUDY TIME		PHASE II APPLIED EXAM	PHASE II APPLIED EXAM	PHASE II THEORETICAL EXAM
16:30-17:15	FREE STUDY TIME		PHASE II APPLIED EXAM	PHASE II APPLIED EXAM	PHASE II THEORETICAL EXAM