

CENTRAL NERVOUS SYSTEM BASIC

AIM

1. To be able to explain the anatomical and histological structure, organization, functions, general functions of the body, and biochemical reactions of the structural elements and tissues that make up the central nervous system.
2. It is aimed to discuss the mechanisms, clinic, treatment and pathology of central nervous system disorders.

LEARNING OBJECTIVES

At the end of this committee;

In terms of Basic Sciences;

1. Will be able to describe the embryological development, histological structure, anatomical and physiological features of the central nervous system (CNS), the relationship between the brain, brain stem and spinal cord, the distinctive features of the central and peripheral nervous system, and the functions of cerebral cortical structures,
 2. Will be able to explain the nervous system biochemistry and CSF analysis, the composition and function of the fluid in the central nervous system, the function of the blood-brain barrier in CNS nutrition and protection,
 3. Will be able to describe the specialized functions of structures located in the brain stem, functions of the cerebellum and basal ganglia, learning memory and higher cortical functions of the brain,
 4. Will be able to explain the functions of the thalamus and limbic system, the structural and functional differences between the somatic and autonomic nervous systems, the features and functions of the autonomic nervous system
- In terms of Clinical Sciences
1. Will be able to explain the pathological findings, etiopathogenesis, macroscopic and microscopic features of CNS disorders,
 2. Explain the microorganisms associated with CNS and the diseases it causes.
 3. Will be able to define the pharmacological properties of drugs used in the treatment of CNS diseases,
 4. Will be able to define the methods used in the diagnosis of CNS diseases.
 5. It is aimed to gain knowledge, attitudes and skills about neurological and psychiatric related diseases.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
LO1	4	1	3	1	1	1	2	2
LO2	4	1	3	1	1	1	2	2
LO3	4	1	3	1	1	1	2	2
LO4	4	1	3	1	1	1	2	2
LO5	5	2	1	2	1	1	2	3
LO6	5	1	2	1	1	1	1	1
LO7	5	2	2	1	2	1	2	3
LO8	5	1	1	1	2	2	2	2
LO9	5	1	3	1	3	2	3	3

COMMITTEE III - CENTRAL NERVOUS SYSTEM (BSC) - 6 WEEKS

LECTURES	FACULTY	THEO.	PRAC.	TOTAL
HISTOLOGY & EMBRYOLOGY	NAZLI ECE ORDUERİ, ASSIST. PROF. DR	16	4	17
PHYSIOLOGY	SİNEM ETHEMOĞLU, ASSIST.PROF.DR.	16		16
BIOCHEMISTRY	AHMET BELCE, PROF.DR.	5		5
MICROBIOLOGY	RECEP KEŞLİ, MD, Prof.	8		10
	YAGMUR EKENOĞLU MERDAN, Assist. Prof	6	4	
ANATOMY	Özlem Öztürk KÖSE, PhD, Assist. Prof.	36	18	42
TOPLAM		82	22	104

COMMITTEE III - CENTRAL NERVOUS SYSTEM (BSC)-WEEK I

Dec. 18- 22, 2023	Monday, December 18, 2023	Tuesday, December 19, 2023	Wednesday, December 20, 2023	Thursday, December 21, 2023	Friday, December 22, 2023
08:30-09:15	General Regulation of the Central Nervous System HISTOLOGY NAZLI ECE ORDUERİ	INDEPENDENT LEARNING	INDEPENDENT LEARNING	Cerebellum and Basal Ganglia physiology PHYSIOLOGY SİNEM ETHEMOĞLU	INDEPENDENT LEARNING
09:30-10:15	General Regulation of the Central Nervous System HISTOLOGY NAZLI ECE ORDUERİ	INDEPENDENT LEARNING	INDEPENDENT LEARNING	Cerebellum and Basal Ganglia physiology PHYSIOLOGY SİNEM ETHEMOĞLU	Cranial nerves (7-12) ANATOMY ÖZLEM ÖZTÜRK KÖSE
10:30-11:15	Organization of the nervous system PHYSIOLOGY SİNEM ETHEMOĞLU	Motor functions of the spinal cord and spinal reflexes PHYSIOLOGY SİNEM ETHEMOĞLU	Peripheral nervous system ANATOMY ÖZLEM ÖZTÜRK KÖSE	Cortex functions and motor planning PHYSIOLOGY SİNEM ETHEMOĞLU	Cranial nerves (7-12) ANATOMY ÖZLEM ÖZTÜRK KÖSE
11:30-12:15	Organization of the nervous system PHYSIOLOGY SİNEM ETHEMOĞLU	Motor functions of the spinal cord and spinal reflexes PHYSIOLOGY SİNEM ETHEMOĞLU	Spinal nervous plexus ANATOMY ÖZLEM ÖZTÜRK KÖSE	Cortex functions and motor planning PHYSIOLOGY SİNEM ETHEMOĞLU	Cranial nerves (7-12) ANATOMY ÖZLEM ÖZTÜRK KÖSE
LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK
13:30-14:15	Introduction to nervous system ANATOMY ÖZLEM ÖZTÜRK KÖSE	Histology of The Cerebrum HISTOLOGY NAZLI ECE ORDUERİ	Central and Periforic Nervous System Histology LAB HISTOLOGY NAZLI ECE ORDUERİ GROUP 1	Cranial nerves (1-6) ANATOMY ÖZLEM ÖZTÜRK KÖSE	INDEPENDENT LEARNING
14:30-15:15	INDEPENDENT LEARNING	Histology of The Cerebrum HISTOLOGY NAZLI ECE ORDUERİ	Central and Periforic Nervous System Histology LAB HISTOLOGY NAZLI ECE ORDUERİ GROUP 2	Cranial nerves (1-6) ANATOMY ÖZLEM ÖZTÜRK KÖSE	Development of the Nervous System-1 HISTOLOGY NAZLI ECE ORDUERİ
15:30-16:15	INDEPENDENT LEARNING	INDEPENDENT LEARNING	Central and Periforic Nervous System Histology LAB HISTOLOGY NAZLI ECE ORDUERİ GROUP 3	Cranial nerves (1-6) ANATOMY ÖZLEM ÖZTÜRK KÖSE	Development of the Nervous System-1 HISTOLOGY NAZLI ECE ORDUERİ
16:30-17:15	INDEPENDENT LEARNING	INDEPENDENT LEARNING	Central and Periforic Nervous System Histology LAB HISTOLOGY NAZLI ECE ORDUERİ GROUP 4	INDEPENDENT LEARNING	INDEPENDENT LEARNING
17:30-18:15	ACADEMIC MENTORING TD101 - OFFLINE	INDEPENDENT LEARNING ATA101 - OFFLINE	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING
17:30-18:15			INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING

COMMITTEE III - CENTRAL NERVOUS SYSTEM (BSC)-WEEK II

Dec. 25- 29, 2023	Monday, December 25, 2023	Tuesday, December 26, 2023	Wednesday, December 27, 2023	Thursday, December 28, 2023	Friday, December 29, 2023
08:30-09:15	INDEPENDENT LEARNING	Autonomic nervous system ANATOMY ÖZLEM ÖZTÜRK KÖSE	INDEPENDENT LEARNING		PHASE 3 EXAM
09:30-10:15	INDEPENDENT LEARNING	Autonomic nervous system ANATOMY ÖZLEM ÖZTÜRK KÖSE	INDEPENDENT LEARNING		
10:30-11:15	Introduction to Anaerobic Bacteriology MICROBIOLOGY Recep KEŞLİ	Anaerobic Gram Positive Bacteria MICROBIOLOGY Recep KEŞLİ	Development of the Nervous System-2 NAZLI ECE ORDUERİ	Neurotransmitters: Structure and Function BIOCHEMISTRY AHMET BELCE	
11:30-12:15	Introduction to Anaerobic Bacteriology MICROBIOLOGY Recep KEŞLİ	Anaerobic Gram Positive Bacteria MICROBIOLOGY Recep KEŞLİ	Development of the Nervous System-2 NAZLI ECE ORDUERİ	Neurotransmitters: Structure and Function BIOCHEMISTRY AHMET BELCE	
LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK
13:30-14:15	Cranial nerves Lab ANATOMY ÖZLEM ÖZTÜRK KÖSE Group 1	Anaerobic Gram Positive Bacteria MICROBIOLOGY Recep KEŞLİ	Introduction to central nervous system ANATOMY ÖZLEM ÖZTÜRK KÖSE	Brain ventricles & subarachnoid cisterns ANATOMY ÖZLEM ÖZTÜRK KÖSE	INDEPENDENT LEARNING
14:30-15:15	Cranial nerves Lab ANATOMY ÖZLEM ÖZTÜRK KÖSE Group 2	Histology of the Medulla Spinalis HISTOLOGY NAZLI ECE ORDUERİ	Meninges & Dural venous sinuses ANATOMY ÖZLEM ÖZTÜRK KÖSE	Brain ventricles & subarachnoid cisterns ANATOMY ÖZLEM ÖZTÜRK KÖSE	INDEPENDENT LEARNING
15:30-16:15	Cranial nerves Lab ANATOMY ÖZLEM ÖZTÜRK KÖSE Group 3	Histology of the Medulla Spinalis HISTOLOGY NAZLI ECE ORDUERİ	Meninges & Dural venous sinuses ANATOMY ÖZLEM ÖZTÜRK KÖSE	INDEPENDENT LEARNING	INDEPENDENT LEARNING
16:30-17:15	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING
17:30-18:15	ACADEMIC MENTORING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING
17:30-18:15			INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING
17:30-18:15	TD101 - OFFLINE	ATA101 - OFFLINE	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING

COMMITTEE III - CENTRAL NERVOUS SYSTEM (BSC)-WEEK III					
Jan 1-5, 2024	Monday, January 1, 2024	Tuesday, January 2, 2024	Wednesday, January 3, 2024	Thursday, January 4, 2024	Friday, January 5, 2024
08:30-09:15	NEW YEAR HOLIDAY	Anaerobic Gram Negative Bacteria MICROBIOLOGY Recep KEŞLİ	meninges, ventricles and venous sinuses lab ANATOMY ÖZLEM ÖZTÜRK KÖSE Group1	Rickettsia ve Orientia MICROBIOLOGY YAGMUR EKENOĞLU MERDAN	INDEPENDENT LEARNING
09:30-10:15		Treponema ve, Borrelia and Leptospira MICROBIOLOGY Dr. Recep Keşli	meninges, ventricles and venous sinuses lab ANATOMY ÖZLEM ÖZTÜRK KÖSE Group2	Rickettsia ve Orientia MICROBIOLOGY YAGMUR EKENOĞLU MERDAN	Brainstem ANATOMY ÖZLEM ÖZTÜRK KÖSE
10:30-11:15		Treponema ve, Borrelia and Leptospira MICROBIOLOGY Dr. Recep Keşli	meninges, ventricles and venous sinuses lab ANATOMY ÖZLEM ÖZTÜRK KÖSE Group3	Ehrlichia, Anaplasma and Coxiella MICROBIOLOGY YAGMUR EKENOĞLU MERDAN	Brainstem ANATOMY ÖZLEM ÖZTÜRK KÖSE
11:30-12:15		LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK
13:30-14:15		INDEPENDENT LEARNING	INDEPENDENT LEARNING	Afferent and efferent pathways ANATOMY ÖZLEM ÖZTÜRK KÖSE	INDEPENDENT LEARNING
14:30-15:15		CSF circulation ANATOMY ÖZLEM ÖZTÜRK KÖSE	Spinal cord ANATOMY ÖZLEM ÖZTÜRK KÖSE	Afferent and efferent pathways ANATOMY ÖZLEM ÖZTÜRK KÖSE	Biochemistry of Neurodegenerative Diseases BIOCHEMISTRY AHMET BELCE
15:30-16:15		Cerebrospinal Fluid and Blood Brain Barrier HISTOLOGY NAZLI ECE ORDUERİ	Spinal cord ANATOMY ÖZLEM ÖZTÜRK KÖSE	CSF Biochemistry BIOCHEMISTRY AHMET BELCE	Biochemistry of Neurodegenerative Diseases BIOCHEMISTRY AHMET BELCE
16:30-17:15		Cerebrospinal Fluid and Blood Brain Barrier HISTOLOGY NAZLI ECE ORDUERİ	Mycoplasma ve Ureplasma MICROBIOLOGY YAGMUR EKENOĞLU MERDAN	INDEPENDENT LEARNING	INDEPENDENT LEARNING
17:30-18:15		ACADEMIC MENTORING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING
17:30- 18:15		TDI01 - OFFLINE	ATA101 - OFFLINE	INDEPENDENT LEARNING	INDEPENDENT LEARNING
COMMITTEE III - CENTRAL NERVOUS SYSTEM (BSC)-WEEK IV					
Jan 08-12, 2024	Monday, January 8, 2024	Tuesday, January 9, 2024	Wednesday, January 10, 2024	Thursday, January 11, 2024	Friday, January 12, 2024
08:30-09:15	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING
09:30-10:15	Spinal cord and Brainstem lab ANATOMY ÖZLEM ÖZTÜRK KÖSE Group 3	Cerebellum ANATOMY ÖZLEM ÖZTÜRK KÖSE	Diencéphalon, cerebellum lab ANATOMY ÖZLEM ÖZTÜRK KÖSE Group 2	Hypophysis gland ANATOMY ÖZLEM ÖZTÜRK KÖSE	INDEPENDENT LEARNING
10:30-11:15	Spinal cord and Brainstem lab ANATOMY ÖZLEM ÖZTÜRK KÖSE Group 2	Diencephalon ANATOMY ÖZLEM ÖZTÜRK KÖSE	Diencéphalon, cerebellum lab ANATOMY ÖZLEM ÖZTÜRK KÖSE Group 1	Limbic system ANATOMY ÖZLEM ÖZTÜRK KÖSE	Cerebral cortex (external anatomy) ANATOMY ÖZLEM ÖZTÜRK KÖSE
11:30-12:15	Spinal cord and Brainstem lab ANATOMY ÖZLEM ÖZTÜRK KÖSE Group 1	Diencephalon ANATOMY ÖZLEM ÖZTÜRK KÖSE	Diencéphalon, cerebellum lab ANATOMY ÖZLEM ÖZTÜRK KÖSE Group 3	Basal nuclei ANATOMY ÖZLEM ÖZTÜRK KÖSE	Cerebral cortex (external anatomy) ANATOMY ÖZLEM ÖZTÜRK KÖSE
LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK
13:30-14:15	Histology of the Cerebellum HISTOLOGY NAZLI ECE ORDUERİ	Lab: Gram Pozitif Basiller MICROBIOLOGY YAGMUR EKENOĞLU MERDAN, Yağmur Eytül Doğanlırk Group 4	Limbic system and hypothalamus physiology PHYSIOLOGY SİNEM ETHEMOĞLU	Chlamydia MICROBIOLOGY YAGMUR EKENOĞLU MERDAN	INDEPENDENT LEARNING
14:30-15:15	Histology of the Cerebellum HISTOLOGY NAZLI ECE ORDUERİ	Lab: Gram Pozitif Basiller MICROBIOLOGY YAGMUR EKENOĞLU MERDAN, Yağmur Eytül Doğanlırk Group 3	Limbic system and hypothalamus physiology PHYSIOLOGY SİNEM ETHEMOĞLU	Chlamydia MICROBIOLOGY YAGMUR EKENOĞLU MERDAN	Learning and memory PHYSIOLOGY SİNEM ETHEMOĞLU
15:30-16:15	INDEPENDENT LEARNING	Lab: Gram Pozitif Basiller MICROBIOLOGY YAGMUR EKENOĞLU MERDAN, Yağmur Eytül Doğanlırk Group 2	Histology of Peripheral Nervous System HISTOLOGY LAB NAZLI ECE ORDUERİ	INDEPENDENT LEARNING	Learning and memory PHYSIOLOGY SİNEM ETHEMOĞLU
16:30-17:15	INDEPENDENT LEARNING	Lab: Gram Pozitif Basiller MICROBIOLOGY YAGMUR EKENOĞLU MERDAN, Yağmur Eytül Doğanlırk Group 1	Histology of Peripheral Nervous System HISTOLOGY LAB NAZLI ECE ORDUERİ	INDEPENDENT LEARNING	INDEPENDENT LEARNING
17:30-18:15	ACADEMIC MENTORING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING
17:30- 18:15	TDI01 - OFFLINE	ATA101 - OFFLINE	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING
COMMITTEE III - CENTRAL NERVOUS SYSTEM (BSC)-WEEK V					
Jan 15-19, 2024	Monday, January 15, 2024	Tuesday, January 16, 2024	Wednesday, January 17, 2024	Thursday, January 18, 2024	Friday, January 19, 2024
08:30-09:15	Ear Anatomy ANATOMY ÖZLEM ÖZTÜRK KÖSE	Eye Anatomy ANATOMY ÖZLEM ÖZTÜRK KÖSE	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING
09:30-10:15	Ear Anatomy ANATOMY ÖZLEM ÖZTÜRK KÖSE	Eye Anatomy ANATOMY ÖZLEM ÖZTÜRK KÖSE	Case Reports D. Sema Arıcı	INDEPENDENT LEARNING	INDEPENDENT LEARNING
10:30-11:15	Autonomic nervous system physiology PHYSIOLOGY SİNEM ETHEMOĞLU	States of brain activity PHYSIOLOGY SİNEM ETHEMOĞLU	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING
11:30-12:15	Autonomic nervous system physiology PHYSIOLOGY SİNEM ETHEMOĞLU	Cerebral blood flow and cerebrospinal circulation PHYSIOLOGY SİNEM ETHEMOĞLU	Case Reports D. Sema Arıcı	INDEPENDENT LEARNING	INDEPENDENT LEARNING
LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK
13:30-14:15	Cerebral cortex (external anatomy) lab ANATOMY ÖZLEM ÖZTÜRK KÖSE Group 3	INDEPENDENT LEARNING	Ear and Eye lab ANATOMY ÖZLEM ÖZTÜRK KÖSE Group 1	INDEPENDENT LEARNING	INDEPENDENT LEARNING
14:30-15:15	Cerebral cortex (external anatomy) lab ANATOMY ÖZLEM ÖZTÜRK KÖSE Group 1	INDEPENDENT LEARNING	Eye lab ANATOMY ÖZLEM ÖZTÜRK KÖSE Group 3	INDEPENDENT LEARNING	INDEPENDENT LEARNING
15:30-16:15	Cerebral cortex (external anatomy) lab ANATOMY ÖZLEM ÖZTÜRK KÖSE Group 2	INDEPENDENT LEARNING	Eye lab ANATOMY ÖZLEM ÖZTÜRK KÖSE Group 2	INDEPENDENT LEARNING	INDEPENDENT LEARNING
16:30-17:15	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING
17:30- 18:15	ACADEMIC MENTORING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING
17:30- 18:15	TDI01 - OFFLINE	ATA101 - OFFLINE	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING
COMMITTEE III - CENTRAL NERVOUS SYSTEM (BSC)-WEEK VI					
Jan 22-26, 2023	Monday, January 22, 2024	Tuesday, January 23, 2024	Wednesday, January 24, 2024	Thursday, January 25, 2024	Friday, January 26, 2024
08:30-09:15	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	COMMITTEE EXAM
09:30-10:15	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	
10:30-11:15	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	
11:30-12:15	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	
LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	
13:30-14:15	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	
14:30-15:15	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	
15:30-16:15	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	
16:30-17:15	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	INDEPENDENT LEARNING	