

**GAZI UNIVERSITY FACULTY OF MEDICINE**

**2020-2021 EDUCATIONAL YEAR**

**DISTANCE (ON-LINE) EDUCATION LABORATORY COURSES FOR YEAR II**

**NEUROLOGICAL SCIENCES COMMITTEE (01 February-05 March 2021)**

<b>COURSES</b>	<b>THEORETICAL</b>	<b>LABORATORY</b>
Anatomy	46	4X2
Biophysics	10	-
Histology and Embryology	11	1X4
Physiology	39	2x4
Medical History and Ethics	4	-
<b>TOTAL</b>	<b>110</b>	<b>7</b>

02.03.2021	Tuesday	ANATOMY APPLIED EXAM
03.03.2021	Wednesday	HISTOLOGY APPLIED EXAM
04.03.2021	Thursday	PHYSIOLOGY APPLIED EXAM
05.03.2021	Friday	THEORETICAL EXAM

Dean	Prof.Dr. Mustafa Necmi İLHAN
Vice Dean	Assoc. Prof. Dr. İlyas OKUR
Vice Dean	Assoc. Prof. Dr. Özlem GÜZEL TUNÇCAN
Head Coordinator	Prof. Dr. Çiğdem ÖZER
Assistant Head Coordinator	Prof.Dr. Mehmet Ali ERGÜN
Assistant Head Coordinator	Prof.Dr. Akif Muhtar ÖZTÜRK
Assistant Head Coordinator	Assoc. Prof. Dr.Özlem COŞKUN
<b>Phase II Coordinator</b>	<b>Assoc. Prof. Dr.Gökçe S. ÖZTÜRK FİNCAN</b>
<b>Assistant Phase II Coordinator</b>	<b>Assist. Prof.Dr. Öğr.Üye. Zeynep YİĞMAN (İNG)</b>
<b>Assistant Phase II Coordinator</b>	<b>Teach. Assist. Dr. Süheyla Esra ÖZKOÇER</b>
<b>Assistant Phase II Coordinator</b>	<b>Teach. Assist. Dr. Pelin TÜRKKAN</b>
<b>Assistant Phase II Coordinator</b>	<b>Teach. Assist. Dr. Ece ALİM</b>

## **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:***

**LO-200-1-1** 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)

**LO-200-1-2** list how the nervous system develops from germ layers during each week of development

**LO-200-1-3** say the anatomical location of central nervous system structures

**LO-200-1-4** describe the histological properties of central nervous system cells

**LO-200-1-5** explain how the motor and sensory functions of the nervous system occur at the level of the medulla spinalis, brainstem and cortex

**LO-200-1-6** count cranial nerves

**LO-200-1-7** describe the histological and anatomical structure of the brain, tell the role of motor control and motor learning and related mechanisms

**LO-200-1-8** describe the histological structure of spinal cord of medulla, describe descending pathways, define spinal reflexes

**LO-200-1-9** describe eye anatomy and visual pathways, ear anatomy and hearing pathways, describe the physiological mechanisms of vision and hearing

**LO-200-1-10** explain the autonomic nervous system

**LO-200-1-11** explain the advanced functions of the nervous system, such as conditioned reflexes, learning and memory, with physiological mechanisms

**LO-200-1-12** discuss the electrical properties of EEG and brain

#### **Application Based (practical skills)**

**LO-200-1-13** able to distinguish and show macroscopic and microscopic structures of the central nervous system

**LO-200-1-14** can practise the anatomical structure of ear and eye

**LO-200-1-15** must be able to distinguish the gray and white layers of the brain at microscope

**LO-200-1-16** distinguish gray and white layers of medulla spinalis, front and rear horn on microscope

**LO-200-1-17** must show physiological, histological features of eye and ear

**LO-200-1-18** must be able to prepare decerebre and spinal frog preparations. M. Spinalis reflexes should be shown on experiment animal

**LO-200-1-19** can show various reflexes in man

**LO-200-1-20** be able to distinguish reaction time and reflex time

#### **Skills Based (intellectual and transferable skills)**

**LO-200-1-21** be aware of the importance of cadaver use in anatomy education

**LO-200-1-22** consider the role of microscopy in histology education

**LO-200-1-23** be aware of the importance of ethical rules in the use of experimental animals and practices on human beings

### MEMBERS OF COMMITTEE

ANATOMY	BIOPHYSICS	HISTOLOGY & EMBRYLOGY	PHYSIOLOGY	MEDICAL HISTORY AND ETHICS
Dr.Meltem BAHÇELİOĞLU	Dr. Onur İNAM	Dr.Çiğdem ELMAS	Dr. Sibel DİNÇER	Dr . Nesrin ÇOBANOĞLU
Dr. Ece ALİM		Dr. Zeynep YIĞMAN	Dr. Meltem SEVGİLİ	
		Dr. Esra ÖZKOÇER	Dr. Pelin TÜRKKAN	
		Dr. Duygu DAYANIR		

ANATOMY LABORATORY	HISTOLOGY & EMBRYLOGY	PHYSIOLOGY LABORATORY
Dr.Meltem BAHÇELİOĞLU	Dr. Esra ÖZKOÇER	Dr. Meltem SEVGİLİ
Dr. Ece ALİM	Dr. Duygu DAYANIR	Dr. Pelin TÜRKKAN

<b>Elective Course Coordinator</b>	Assoc. Prof. Dr .Ergin DİLEKÖZ
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**SEÇMELİ DERSLER SALI GÜNLERİ SAAT 15:00-16:00 ARALIĞINDA YAPILACAKTIR.**

<b>LABORATORY COURSES</b>	
<b>ANATOMY LABORATORY 1</b>	Spinal cord Cerebellum 4. Ventricle Mesencephalon
<b>ANATOMY LABORATORY 2</b>	Diencephalon Telencephalon Basal nuclei 3th and lateral ventricles
<b>ANATOMY LABORATORY 3</b>	Cranial nerves Autonomic nervous system Meninges and vessels of the brain and the spinal cord
<b>ANATOMY LABORATORY 4</b>	Eye anatomy Ear anatomy
<b>PHYSIOLOGY LABORATORY 1</b>	Reflex in Animal
<b>PHYSIOLOGY LABORATORY 2</b>	Reflex in Human
<b>HISTOLOGY LABORATORY</b>	Brain Medulla spinalis Spinal Ganglion Cerebellum Cornea Peripheral nerve

1 <sup>st</sup> WEEK	01.02.2021 Monday	02.02.2021 Tuesday	03.02.2021 Wednesday	04.02.2021 Thursday	05.02.2021 Friday
09:00-10:30	Free Study Time	Anatomy laboratory ( 1) 1. grup	Free Study Time	Free Study Time	Free Study Time
11:00-12:30	Free Study Time	Anatomy laboratory ( 1) 2. grup	Physiology Laboratory(1) A grubu	Physiology Laboratory(1) B grubu	Histology Laboratory A grubu
14:00-15:00	Free Study Time	Free Study Time	Free Study Time	Free Study Time	Free Study Time
15:00-16:00	Free Study Time	Free Study Time	Free Study Time	Free Study Time	Free Study Time

<b>2<sup>nd</sup> WEEK</b>	<b>08.02.2021</b> <b>Monday</b>	<b>09.02.2021</b> <b>Tuesday</b>	<b>10.02.2021</b> <b>Wednesday</b>	<b>11.02.2021</b> <b>Thursday</b>	<b>12.02.2021</b> <b>Friday</b>
<b>09:00-10:30</b>	<b>Free Study Time</b>	<b>Anatomy laboratory ( 2)</b> <b>2. grup</b>	<b>Free Study Time</b>	<b>Free Study Time</b>	<b>Free Study Time</b>
<b>11:00-12:30</b>	<b>Free Study Time</b>	<b>Anatomy laboratory ( 2)</b> <b>1. grup</b>	<b>Physiology Laboratory(1)</b> <b>C grubu</b>	<b>Physiology Laboratory(1)</b> <b>D grubu</b>	<b>Histology Laboratory</b> <b>B grubu</b>
<b>14:00-15:00</b>	<b>Free Study Time</b>	<b>Free Study Time</b>	<b>Free Study Time</b>	<b>Free Study Time</b>	<b>Free Study Time</b>
<b>15:00-16:00</b>	<b>Free Study Time</b>	<b>Free Study Time</b>	<b>Free Study Time</b>	<b>Free Study Time</b>	<b>Free Study Time</b>

3 <sup>rd</sup> WEEK	15.02.2021 Monday	16.02.2021 Tuesday	17.02.2021 Wednesday	18.02.2021 Thursday	19.02.2021 Friday
09:00-10:30	Free Study Time	Anatomy laboratory ( 3) 1. grup	Free Study Time	Free Study Time	Free Study Time
11:00-12:30	Free Study Time	Anatomy laboratory ( 3) 2. grup	Physiology Laboratory(2) A grubu	Physiology Laboratory(2) B grubu	Histology Laboratory C grubu
14:00-15:00	Free Study Time	Free Study Time	Free Study Time	Free Study Time	Free Study Time
15:00-16:00	Free Study Time	Free Study Time	Free Study Time	Free Study Time	Free Study Time

4 <sup>th</sup> WEEK	22.02.2021 Monday	23.02.2021 Tuesday	24.02.2021 Wednesday	25.02.2021 Thursday	26.02.2021 Friday
09:00-10:30	Free Study Time	Anatomy laboratory ( 4) 2. grup	Free Study Time	Free Study Time	Free Study Time
11:00-12:30	Free Study Time	Anatomy laboratory ( 4) 1. grup	Physiology Laboratory(2) C grubu	Physiology Laboratory(2) D grubu	Histology Laboratory D grubu
14:00-15:00	Free Study Time	Free Study Time	Free Study Time	Free Study Time	Free Study Time
15:00-16:00	Free Study Time	<b>ELECTIVE COURSE</b>	Free Study Time	Free Study Time	Free Study Time

5 <sup>th</sup> WEEK	01.03.2021 Monday	02.03.2021 Tuesday	03.03.2021 Wednesday	04.03.2021 Thursday	05.03.2021 Friday
09:00-10:30	Physiology Laboratory  MAKE UP	ANATOMY APPLIED EXAM	HISTOLOGY APPLIED EXAM	PHYSIOLOGY APPLIED EXAM	THEORETICAL EXAM
11:00-12:30	Anatomy laboratory  MAKE UP				
14:00-15:00	Histology Laboratory  MAKE UP	Free Study Time	Free Study Time	Free Study Time	
15:00-16:00	Free Study Time	ELECTIVE COURSE	Free Study Time	Free Study Time	