

**GAZI UNIVERSITY FACULTY OF MEDICINE**

**2020-2021 EDUCATIONAL YEAR**

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

**RESPIRATORY AND CARDIOVASCULAR SYSTEMS COMMITTEE**

**(08 March - 09 April 2021)**

<b>COURSES</b>	<b>THEORETICAL</b>	<b>LABORATORY</b>
Anatomy	23	4X2
Biophysics	12	-
Physiology	47	4X2
Histology and Embryology	24	1X4
Immunology	20	-
<b>TOTAL</b>	<b>126</b>	<b>9</b>

<b>08.04.2021</b>	<b>Thursday</b>	<b>APPLIED EXAM (ANATOMY+PHYSIOLOGY+HISTOLOGY)</b>
<b>09.04.2021</b>	<b>Friday</b>	<b>THEORICAL EXAM</b>

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 YIĞMAN (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>

## **RESPIRATORY AND CARDIOVASCULAR SYSTEMS COMMITTEE**

### **Aim**

Be able to evaluate the embryonic development, anomalies, anatomical, histological and physiological properties of blood, circulation, fetal circulation, lymphatic circulation and respiratory systems by associating them with biophysical laws.

### **LEARNING OUTCOMES**

#### **Knowledge Based**

**LO-200-2-1** to be able to describe the anatomical, histological and embryological structure of the heart, explain its functional properties

**LO-200-2-2** to be able to say the contraction mechanisms of the heart muscle and may understand the regulation of heart functioning

**LO-200-2-3** to be able to explain the ECG

**LO-200-2-4** can describe the anomalies and malformations of the cardiovascular system

**LO-200-2-5** to explain the anatomical, histological and functional properties of the structures forming the cardiovascular system

**LO-200-2-6** to explain the flow of blood, blood pressure and regulation mechanisms, connection with related physics laws

**LO-200-2-7** to describe fetal, pulmonary and coronary circulation

**LO-200-2-8** to define the lymphoreticular system

**LO-200-2-9** To be able to define the anatomical, histological and embryological structure of the respiratory system and explain its functional properties

**LO-200-2-10** Describe the properties and functions of structures specific to respiratory system

**LO-200-2-11** Describe the properties and functions of blood and cells

**LO-200-2-12** Explain the functions of immune system organs, cells, MHC molecules, T and B cells

**LO-200-2-13** To be able to interpret the types of respiratory and respiratory pathologies

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

**LO-200-2-14** to be able to use basic communication skill

**LO-200-2-15** to demonstrate the ability to establish vascular access

**LO-200-2-16** To be able to show the differences between the structures of cardiovascular system and the respiratory system under the microscope

**LO-200-2-17** to demonstrate Hb, Htc, sedimentation, blood group studies

**LO-200-2-18** to be able to show the heart's arousal systems

**LO-200-2-19** to determine CO<sub>2</sub> in breathing air, analyze NO

**LO-200-2-20** to apply respiratory function tests

**LO-200-2-21** to be able to take and interpret ECG

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

**LO-200-2-22** to be aware of working with a living organ or subject.

**LO-200-2-23** to recognize the responsibility to behave in a way that does not cause damage during operations

**LO-200-2-24** to be aware of cadaver and microscope studies

### MEMBERS OF COMMITTEE

<b>ANATOMY</b>	<b>BIOPHYSICS</b>	<b>HISTOLOGY &amp; EMBRYLOGY</b>	<b>PHYSIOLOGY</b>	<b>IMMUNOLOGY</b>
Dr. Meltem BAHÇELİOĞLU	Dr. Elçin Özgür BÜYÜKATALAY	Dr. Çiğdem ELMAS	Dr. Şevin GÜNEY	Dr. Vedat BULUT
Dr. Ece ALİM		Dr. Zeynep YIĞMAN	Dr. Meltem SEVGİLİ	Dr. Ümit BAĞRIAÇIK
		Dr. Esra ÖZKOÇER	Dr. Pelin TÜRKKAN	Dr. Resul KARAKUŞ
		Dr. Duygu DAYANIR		

<b>ANATOMY LABORATORY</b>	<b>HISTOLOGY &amp; EMBRYLOGY LABORATORY</b>	<b>PHYSIOLOGY LABORATORY</b>
Dr. Meltem BAHÇELİOĞLU	Dr. Çiğdem ELMAS	Dr. Şevin GÜNEY
	Dr. Zeynep YIĞMAN	Dr. Meltem SEVGİLİ
Dr. Ece ALİM	Dr. Esra ÖZKOÇER	Dr. Pelin TÜRKKAN
	Dr. Duygu DAYANIR	Dr. Hilal KORKMAZ

Elective Course Coordinator	Assoc. Prof. Dr. Ergin DİLEKÖZ
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<b>LABORATORY COURSES</b>	
<b>ANATOMY LABORATORY 1</b>	Thoracic Wall Mediastineum Heart Heart and Great Vessels
<b>ANATOMY LABORATORY 2</b>	Vessels of the head and neck
<b>ANATOMY LABORATORY 3</b>	Nose Anatomy Larynx
<b>ANATOMY LABORATORY 4</b>	Trachea Lungs Diaphragm
<b>PHYSIOLOGY LABORATORY 1</b>	Blood experiments-1 (Hb, Hct, Blood groups, Sedimentation)
<b>PHYSIOLOGY LABORATORY 2</b>	Blood experiments-2 (Erythrocyte and leucocyte count, peripheral blood smear)
<b>PHYSIOLOGY LABORATORY 3</b>	ECG
<b>PHYSIOLOGY LABORATORY 4</b>	Spirometer
<b>HISTOLOGY LABORATORY</b>	Artery Vein Heart Peripheral Blood Smear Bone Marrow Lymph Nodes Palatine Tonsil Spleen Thymus Nasal Conchae Epiglottis Trachea Lungs

<b>1<sup>st</sup> WEEK</b>	<b>08.03.2021</b> <b>Monday</b>	<b>09.03.2021</b> <b>Tuesday</b>	<b>10.03.2021</b> <b>Wednesday</b>	<b>11.03.2021</b> <b>Thursday</b>	<b>12.03.2021</b> <b>Friday</b>
<b>09:00-10:30</b>	<b>Free Study Time</b>	<b>Anatomy laboratory ( 1)</b> <b>1. group</b>	<b>COMMUNICATION SKILLS</b>  <b>10:00-12:00</b>	<b>Free Study Time</b>	<b>Free Study Time</b>
<b>11:00-12:30</b>	<b>Physiology Laboratory(1)</b> <b>A+B group</b>	<b>Anatomy laboratory ( 1)</b> <b>2. group</b>		<b>Physiology Laboratory(1)</b> <b>C+D group</b>	<b>Histology Laboratory</b> <b>A group</b>
<b>14:00-15:00</b>	<b>Free Study Time</b>	<b>MEDICAL ENGLISH</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>ELECTIVE COURSES</b>	<b>Free Study Time</b>	<b>Free Study Time</b>	<b>Free Study Time</b>

<b>2<sup>nd</sup> WEEK</b>	<b>15.03.2021 Monday</b>	<b>16.03.2021 Tuesday</b>	<b>17.03.2021 Wednesday</b>	<b>18.03.2021 Thursday</b>	<b>19.03.2021 Friday</b>
<b>09:00-10:30</b>	<b>Free Study Time</b>	<b>Anatomy laboratory ( 2) 2. group</b>	<b>COMMUNICATION SKILLS  10:00-12:00</b>	<b>Free Study Time</b>	<b>Free Study Time</b>
<b>11:00-12:30</b>	<b>Physiology Laboratory(2) A+B group</b>	<b>Anatomy laboratory ( 2) 1. group</b>		<b>Physiology Laboratory(2) C+D group</b>	<b>Histology Laboratory B group</b>
<b>14:00-15:00</b>	<b>Free Study Time</b>	<b>MEDICAL ENGLISH</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>ELECTIVE COURSES</b>	<b>Free Study Time</b>	<b>Free Study Time</b>	<b>Free Study Time</b>

<b>3<sup>rd</sup> WEEK</b>	<b>22.03.2021</b> <b>Monday</b>	<b>23.03.2021</b> <b>Tuesday</b>	<b>24.03.2021</b> <b>Wednesday</b>	<b>25.03.2021</b> <b>Thursday</b>	<b>26.03.2021</b> <b>Friday</b>
<b>09:00-10:30</b>	<b>Free Study Time</b>	<b>Anatomy laboratory ( 3)</b> <b>1. group</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 ( 3)</b> <b>2. group</b>	<b>Physiology Laboratory (3)</b> <b>A+B group</b>	<b>Physiology Laboratory(3)</b> <b>C+D group</b>	<b>Histology Laboratory</b> <b>C group</b>
<b>14:00-15:00</b>	<b>Free Study Time</b>	<b>MEDICAL ENGLISH</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>ELECTIVE COURSES</b>	<b>Free Study Time</b>	<b>Free Study Time</b>	<b>Free Study Time</b>

<b>4<sup>th</sup> WEEK</b>	<b>29.03.2021</b> <b>Monday</b>	<b>30.03.2021</b> <b>Tuesday</b>	<b>31.03.2021</b> <b>Wednesday</b>	<b>01.04.2021</b> <b>Thursday</b>	<b>02.04.2021</b> <b>Friday</b>
<b>09:00-10:30</b>	<b>Free Study Time</b>	<b>Anatomy laboratory ( 4)</b> <b>2. group</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 ( 4)</b> <b>1. group</b>	<b>Physiology Laboratory(4)</b> <b>A+B group</b>	<b>Physiology Laboratory(4)</b> <b>C+D group</b>	<b>Histology Laboratory</b> <b>D group</b>
<b>14:00-15:00</b>	<b>Free Study Time</b>	<b>MEDICAL ENGLISH</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>ELECTIVE COURSES</b>	<b>Free Study Time</b>	<b>Free Study Time</b>	<b>Free Study Time</b>

<b>5<sup>th</sup>WEEK</b>	<b>05.04.2021</b> <b>Monday</b>	<b>06.04.2021</b> <b>Tuesday</b>	<b>07.04.2021</b> <b>Wednesday</b>	<b>08.04.2021</b> <b>Thursday</b>	<b>09.04.2021</b> <b>Friday</b>
<b>09:00-10:30</b>	<b>Physiology Laboratory</b>  <b>MAKE UP</b>	<b>Free Study Time</b>	<b>Free Study Time</b>	<b>APPLIED EXAM</b>  <b>(ANATOMY+</b>	<b>THEORETICAL EXAM</b>
<b>11:00-12:30</b>	<b>Histology Laboratory</b>  <b>MAKE UP</b>	<b>Free Study Time</b>	<b>Free Study Time</b>	<b>PHYSIOLOGY+</b>  <b>HISTOLOGY)</b>	
<b>14:00-15:00</b>	<b>Free Study Time</b>	<b>MEDICAL ENGLISH</b>	<b>Free Study Time</b>	<b>Free Study Time</b>	
<b>15:00-16:00</b>	<b>Free Study Time</b>	<b>ELECTIVE COURSES</b>	<b>Free Study Time</b>	<b>Free Study Time</b>	