

GAZI UNIVERSITY FACULTY OF MEDICINE

2021-2022 EDUCATIONAL YEAR

YEAR II

RESPIRATORY AND CARDIOVASCULAR SYSTEMS COMMITTEE

(28.10.2021-30.12.2021)

COURSES	THEORETICAL	LAB	TOTAL
Anatomy	23	5X9	28
Biophysics	12	-	12
Physiology	47	4x9	51
Histology and Embryology	24	5x9	29
Immunology	20		20
TOTAL	126	14	140
Elective Lectures	18		18
Clinical Skills Education (CSE)		2	2
Communication Skills	6		6
English	18		18
TOTAL	168	16	184

27.12.2021	Monday	Phase II Applied Exam	Time: 08.30
28.12.2021	Tuesday	Phase II Applied Exam	Time: 08.30
29.12.2021	Wednesday	Phase II Applied Exam	Time: 08.30
30.12.2021	Thursday	Phase II Theoretical Exam	Time: 09:30

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
Year II Coordinator	Assoc. Prof. Dr. Gökçe Sevim ÖZTÜRK FİNCAN
Assistant Year II Coordinator	Asst. Prof. Dr. Zeynep YIĞMAN (ENG)
Assistant Year II Coordinator	Teach. Assist. Dr. Esra ÖZKOÇER
Assistant Year II Coordinator	Teach. Assist. Dr. Pelin TÜRKKAN
Assistant Year II Coordinator	Teach. Assist. Dr. Ece ALİM

RESPIRATORY AND CIRCULATORY 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 CO₂ 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

DERS GRUBU ÖĞRETİM ÜYELERİ

ANATOMY	HISTOLOGY AND EMBRYLOGY	PHYSIOLOGY	BIOPHYSICS	IMMUNOLOGY
Dr. Meltem BAHÇELİOĞLU	Dr. Çiğdem ELMAS	Dr. Şevin GÜNEY	Dr. Elçin Özgür BÜYÜKATALAY	Dr. Vedat BULUT
Dr. Ece ALİM	Dr. Zeynep YIĞMAN	Dr. Meltem SEVGİLİ		Dr. Ümit BAĞRIAÇIK
Dr. Kerem ATALAR	Dr. Duygu DAYANIR	Dr. Pelin TÜRKKAN		Dr. Resul KARAKUŞ
	Dr. S. Esra ÖZKOÇER	Dr. Hilal KORKMAZ		

ANATOMY LABORATORY	HISTOLOGY AND EMBRYLOGY LABORATORY	PHYSIOLOGY LABORATORY
Dr. Meltem BAHÇELİOĞLU	Dr. Çiğdem ELMAS	Dr. Şevin GÜNEY
Dr. Ece ALİM	Dr. Zeynep YIĞMAN	Dr. Meltem SEVGİLİ
Dr. Kerem ATALAY	Dr. S. Esra ÖZKOÇER	Dr. Pelin TÜRKKAN
	Dr. Duygu DAYANIR	Dr. Hilal KORKMAZ

Communication Skills Coordinator	Prof. Dr. Bülent BOYACI
Clinical Skills Education Coordinator	Assoc. Prof. Dr. Melda AYBAR TÜRKOĞLU
Problem Based Learning	Assoc. Prof. Dr. Özlem COŞKUN
Elective Course Coordinator	Assoc. Prof. Dr. Ergin DİLEKÖZ

GROUP A	111302084 - 191302090
GROUP B	191302092 - 201302722

1st Week				28.10.2021 Thursday	29.10.2021 Friday
08.30-09.15				FREE STUDY TIME	REPUBLIC DAY
09.30-10.15				FREE STUDY TIME	REPUBLIC DAY
10.30-11.15				FREE STUDY TIME	REPUBLIC DAY
11.30-12.15				FREE STUDY TIME	REPUBLIC DAY
13.30-14.15				PUBLIC HOLIDAY	REPUBLIC DAY
14.30-15.15				PUBLIC HOLIDAY	REPUBLIC DAY
15.30-16.15				PUBLIC HOLIDAY	REPUBLIC DAY
16.30-17.15				PUBLIC HOLIDAY	REPUBLIC DAY

2 nd Week	01.11.2021 Monday	02.11.2021 Tuesday	03.11.2021 Wednesday	04.11.2021 Thursday	05.11.2021 Friday
	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A
08.30-09.15	Questions Analysis of 1st Committee Exam and Feedback	Functions of blood, physical and chemical properties Dr. TÜRKKAN	Circulatory system embryology Dr. ÖZKOÇER	Lymphocyte subgroups Dr. KARAKUŞ	Hematopoiesis Dr. DAYANIR
09.30-10.15	Thoracic wall, Anatomy of the heart Dr. BAHÇELIOĞLU	Functions of blood, physical and chemical properties Dr. TÜRKKAN	Circulatory system histology Dr. ÖZKOÇER	Lymphocyte subgroups Dr. KARAKUŞ	Hematopoiesis Dr. DAYANIR
10.30-11.15	Thoracic wall, Anatomy of the heart Dr. BAHÇELIOĞLU	Anatomy of the heart Dr. BAHÇELIOĞLU	Mediastinum Dr. BAHÇELIOĞLU	Blood Dr. DAYANIR	Regulation of Hemopoiesis Dr. TÜRKKAN
11.30-12.15	Circulatory system embryology Dr. ÖZKOÇER	Anatomy of the heart Dr. BAHÇELIOĞLU	Fetal circulation Dr. BAHÇELIOĞLU	Blood Dr. DAYANIR	Regulation of Hemopoiesis Dr. TÜRKKAN
13.30-14.15	Circulatory system embryology Dr. ÖZKOÇER	ONLINE COURSES ELECTIVE COURSES TIME: 15.30-16.30 ENGLISH TIME: 17.30-18.20	PBL	Vessels of the head and neck Dr. ATALAR	Cells other than lymphocytes involved in immune response Dr. KARAKUŞ
14.30-15.15	Circulatory system embryology Dr. ÖZKOÇER		PBL	Vessels of the head and neck Dr. ATALAR	Cells other than lymphocytes involved in immune response Dr. KARAKUŞ
15.30-16.15	Lymphocytes Dr. KARAKUŞ		PBL	Circulatory system histology Dr. ÖZKOÇER	Forces on active erythrocytes:Stoke's Law, Pressure in Circulation System:Bernoulli Law, Velocity and Flow in internal frictional flowing:Poiseulli law Dr. BÜYÜKATALAY
16.30-17.15	Lymphocytes Dr. KARAKUŞ		PBL	Circulatory system histology Dr. ÖZKOÇER	Forces on active erythrocytes:Stoke's Law, Pressure in Circulation System:Bernoulli Law, Velocity and Flow in internal frictional flowing:Poiseulli law Dr. BÜYÜKATALAY

3 rd Week	08.11.2021 Monday GROUP B	09.11.2021 Tuesday GROUP A	10.11.2021 Wednesday GROUP B	11.11.2021 Thursday YEAR III EXAM	12.11.2021 Friday GROUP A
08.30-09.15	Vessels of the head and neck Dr. ATALAR	FREE STUDY TIME	FREE STUDY TIME	Physiology Lab (1)	MHC molecules: structure and function Dr.BULUT
09.30-10.15	Lymphatic system Dr. ALIM	Basic principles of cardiac electrophysiology and myocardial contraction Dr. GÜNEY	Immun systems organs Dr. BAGRIACIK	Physiology Lab (1)	MHC molecules: structure and function Dr.BULUT
10.30-11.15	Basic principles of cardiac electrophysiology and myocardial contraction Dr. GÜNEY	Functions of Erythrocytes Dr. TÜRKKAN	Tonsil and Lymph node Dr. ÖZKOÇER	Physiology Lab (1)	Destruction of Erythrocytes. Anemia-Politemia Dr. TÜRKKAN
11.30-12.15	Basic principles of cardiac electrophysiology and myocardial contraction Dr. GÜNEY	Functions of Erythrocytes Dr. TÜRKKAN	Tonsil and Lymph node Dr. ÖZKOÇER	Physiology Lab (1)	Blood groups, transfusion, determination of blood volume Dr. TÜRKKAN
13.30-14.15	Lymphatic system Dr. ALIM	ONLINE COURSES ELECTIVE COURSES TIME: 15.30-16.30 ENGLISH TIME: 17.30-18.20	PBL	Physiology Lab (1)	Regulation of heart functions DR. GÜNEY
14.30-15.15	Lymphatic system Dr. ALIM		PBL	Physiology Lab (1)	Regulation of heart functions DR. GÜNEY
15.30-16.15	Cells of Lymphoid tissue Dr. ÖZKOÇER		PBL	Physiology Lab (1)	Training, changes in pressure-velocity and kinetic energy due to pathological cont of arteries Dr. BÜYÜKATALAY
16.30-17.15	Cells of Lymphoid tissue Dr. ÖZKOÇER		PBL	Physiology Lab (1)	Training, changes in pressure-velocity and kinetic energy due to pathological cont of arteries Dr.BÜYÜKATALAY

4 th Week	15.11.2021 Monday GROUP B	16.11.2021 Tuesday	17.11.2021 Wednesday YEAR I EXAM	18.11.2021 Thursday GROUP A	19.11.2021 Friday GROUP B
08.30-09.15	Nose Anatomy Dr. ATALAR	Anatomy Lab (1)	Histology Lab (1)	Spleen and Thymus Dr. YİĞMAN	FREE STUDY TIME
09.30-10.15	Nose Anatomy Dr. ATALAR	Anatomy Lab (1)	Histology Lab (1)	Spleen and Thymus Dr. YİĞMAN	Platelet functions Dr. TÜRKKAN
10.30-11.15	Leucocyte functions Dr. TÜRKKAN	Anatomy Lab (1)	Histology Lab (1)	Heart valves and heart sounds DR. GÜNEY	Larynx Dr. BAHÇELİOĞLU
11.30-12.15	Leucocyte functions Dr. TÜRKKAN	Anatomy Lab (1)	Histology Lab (1)	The cardiac cycle and pressure changes DR. GÜNEY	Larynx Dr. BAHÇELİOĞLU
13.30-14.15	Cytokines Dr. BULUT	ONLINE COURSES ELECTIVE COURSES TIME: 15.30-16.30 ENGLISH TIME: 17.30-18.20	PBL	The cardiac cycle and pressure changes DR. GÜNEY	ECG DR. GÜNEY
14.30-15.15	Cytokines Dr. BULUT		PBL	Phagocytosis Dr. TÜRKKAN	ECG DR. GÜNEY
15.30-16.15	Antigen processing and presentation Dr. BULUT		PBL	T and B cells repertoire mechanisms Dr. BAĞRIAÇIK	FREE STUDY TIME
16.30-17.15	FREE STUDY TIME		PBL	T and B cells repertoire mechanisms Dr. BAĞRIAÇIK	FREE STUDY TIME

5 th Week	22.11.2021 Monday	23.11.2021 Tuesday	24.11.2021 Wednesday GROUP A	25.11.2021 Thursday GROUP B	26.11.2021 Friday GROUP A
08.30-09.15	Physiology Lab (2)	Anatomy Lab (2)	Communication Skills	FREE STUDY TIME	FREE STUDY TIME
09.30-10.15	Physiology Lab (2)	Anatomy Lab (2)	Communication Skills	Principles of hemodynamic Dr. SEVGİLİ	ECG DR. GÜNEY
10.30-11.15	Physiology Lab (2)	Anatomy Lab (2)	Communication Skills	Principles of hemodynamic Dr. SEVGİLİ	Conducting portion of respiratory system Dr. ELMAS
11.30-12.15	Physiology Lab (2)	Anatomy Lab (2)	Communication Skills	Respiratory system embryology Dr. ELMAS	Conducting portion of respiratory system Dr. ELMAS
13.30-14.15	Physiology Lab (2)	ONLINE COURSES ELECTIVE COURSES TIME: 15.30-16.30 ENGLISH TIME: 17.30-18.20	Respiratory system embryology Dr. ELMAS	Mechanism of coagulation Dr. TÜRKKAN	Histology Lab (2)
14.30-15.15	Physiology Lab (2)		Respiratory system embryology Dr. ELMAS	Mechanism of coagulation Dr. TÜRKKAN	Histology Lab (2)
15.30-16.15	Physiology Lab (2)		FREE STUDY TIME	FREE STUDY TIME	Histology Lab (2)
16.30-17.15	Physiology Lab (2)		FREE STUDY TIME	FREE STUDY TIME	Histology Lab (2)

6 th Week	29.11.2021 Monday GROUP A	30.11.2021 Tuesday	01.12.2021 Wednesday GROUP B	02.12.2021 Thursday GROUP A	03.12.2021 Friday GROUP B
08.30-09.15	Respiratory portion of respiratory system Dr. ELMAS	Anatomy Lab (3)	Communication Skills	FREE STUDY TIME	The functions of the respiratory system Dr. KORKMAZ
09.30-10.15	Respiratory portion of respiratory system Dr. ELMAS	Anatomy Lab (3)	Communication Skills	Clinical Anatomy Dr. BAHÇELİOĞLU	Mechanics of breathing and physical principles Dr. KORKMAZ
10.30-11.15	Trachea, lungs and diaphragm Dr. ALIM	Anatomy Lab (3)	Communication Skills	Clinical Anatomy Dr. BAHÇELİOĞLU	Autoregulation and capillary dynamics Dr. SEVGİLİ
11.30-12.15	Trachea, lungs and diaphragm Dr. ALIM	Anatomy Lab (3)	Communication Skills	Clinical Anatomy Dr. BAHÇELİOĞLU	Autoregulation and capillary dynamics Dr. SEVGİLİ
13.30-14.15	Functional organization of blood vessels Dr. SEVGİLİ	ONLINE COURSES ELECTIVE COURSES TIME: 15.30-16.30 ENGLISH TIME: 17.30-18.20	Laplace law and autoregulation of pressure Dr. BÜYÜKATALAY	The activity and strength of the heart, the cycle of the heart Dr. BÜYÜKATALAY	Histology Lab (3)
14.30-15.15	Functional organization of blood vessels Dr. SEVGİLİ		Laplace law and autoregulation of pressure Dr. BÜYÜKATALAY	The activity and strength of the heart, the cycle of the heart Dr. BÜYÜKATALAY	Histology Lab (3)
15.30-16.15	FREE STUDY TIME		FREE STUDY TIME	FREE STUDY TIME	Histology Lab (3)
16.30-17.15	FREE STUDY TIME		FREE STUDY TIME	FREE STUDY TIME	Histology Lab (3)

7 th Week	06.12.2021 Monday GROUP A	07.12.2021 Tuesday	08.12.2021 Wednesday GROUP B	09.12.2021 Thursday	10.12.2021 Friday GROUP B
08.30-09.15	Physiological mechanisms in some cardiovascular diseases (cardiac failure, circulatory shock) Dr. GÜNEY	Anatomy Lab (4)	Communication Skills	Physiology Lab (3)	Fetal circulation Dr. SEVGİLİ
09.30-10.15	Physiological mechanisms in some cardiovascular diseases (cardiac failure, circulatory shock) Dr. GÜNEY	Anatomy Lab (4)	Communication Skills	Physiology Lab (3)	Fetal circulation Dr. SEVGİLİ
10.30-11.15	Clinical Anatomy Dr. BAHÇELİOĞLU	Anatomy Lab (4)	Communication Skills	Physiology Lab (3)	O ₂ , CO ₂ Transport by the Blood Dr. KORKMAZ
11.30-12.15	Clinical Anatomy Dr. BAHÇELİOĞLU	Anatomy Lab (4)	Communication Skills	Physiology Lab (3)	Hb-O ₂ Binding and Dissociation Curve Dr. KORKMAZ
13.30-14.15	Coronary circulation Dr. SEVGİLİ		Adhesion molecules structure and function Dr. BAGRIAÇIK	Physiology Lab (3)	Histology Lab (4)
14.30-15.15	Quantitative relations of respiration Dr. KORKMAZ	ONLINE COURSES ELECTIVE COURSES TIME: 15.30-16.30	Chemokines and their receptors Dr. BAGRIAÇIK	Physiology Lab (3)	Histology Lab (4)
15.30-16.15	FREE STUDY TIME	ENGLISH TIME: 17.30-18.20		Physiology Lab (3)	Histology Lab (4)
16.30-17.15	FREE STUDY TIME			Physiology Lab (3)	Histology Lab (4)

8 th Week	13.12.2021 Monday GROUP A	14.12.2021 Tuesday	15.12.2021 Wednesday GROUP A	16.12.2021 Thursday DIII EXAM	17.12.2021 Friday GROUP B
08.30-09.15	Histology Lab (5)	Anatomy Lab (5)	Complement system Dr. BAĞRIAÇIK	CSE	FREE STUDY TIME
09.30-10.15	Histology Lab (5)	Anatomy Lab (5)	Complement system Dr. BAĞRIAÇIK	CSE	FREE STUDY TIME
10.30-11.15	Histology Lab (5)	Anatomy Lab (5)	Diffusion of gases through the respiratory membrane Dr. KORKMAZ	CSE	Regulation of Respiration Dr. KORKMAZ
11.30-12.15	Histology Lab (5)	Anatomy Lab (5)	Regulation of Respiration Dr. KORKMAZ	CSE	Respiratory System under Stress Dr. KORKMAZ
13.30-14.15	The factors affecting blood pressure Dr. SEVGİLİ	ONLINE COURSES ELECTIVE COURSES TIME: 15.30-16.30 ENGLISH TIME: 17.30-18.20	Respiration system and its dynamic properties. Gas laws related with respiration, application of Poiseulle and Laplace Laws in respiratory system Dr. BÜYÜKATALAY	CSE	Cellular and Humoral immune response Dr. KARAKUŞ
14.30-15.15	The factors affecting blood pressure Dr. SEVGİLİ		Respiration system and its dynamic properties. Gas laws related with respiration, application of Poiseulle and Laplace Laws in respiratory system Dr. BÜYÜKATALAY	CSE	Cellular and Humoral immune response Dr. KARAKUŞ
15.30-16.15	FREE STUDY TIME		FREE STUDY TIME	CSE	Surface tension and alveolus mechanics Compliance in lung and breast Dr. BÜYÜKATALAY
16.30-17.15	FREE STUDY TIME		FREE STUDY TIME	CSE	Surface tension and alveolus mechanics Compliance in lung and breast Dr. BÜYÜKATALAY

9 th Week	20.12.2021 Monday	21.12.2021 Tuesday	22.12.2021 Wednesday	23.12.2021 Thursday	24.12.2021 Friday
08.30-09.15	Physiology Lab (4)	FREE STUDY TIME	CSE	FREE STUDY TIME	FREE STUDY TIME
09.30-10.15	Physiology Lab (4)	FREE STUDY TIME	CSE	FREE STUDY TIME	FREE STUDY TIME
10.30-11.15	Physiology Lab (4)	FREE STUDY TIME	CSE	FREE STUDY TIME	FREE STUDY TIME
11.30-12.15	Physiology Lab (4)	FREE STUDY TIME	CSE	FREE STUDY TIME	FREE STUDY TIME
13.30-14.15	Physiology Lab (4)	ONLINE COURSES ELECTIVE COURSES TIME: 15.30-16.30 ENGLISH TIME: 17.30-18.20	CSE	FREE STUDY TIME	FREE STUDY TIME
14.30-15.15	Physiology Lab (4)		CSE	FREE STUDY TIME	FREE STUDY TIME
15.30-16.15	Physiology Lab (4)		CSE	FREE STUDY TIME	FREE STUDY TIME
16.30-17.15	Physiology Lab (4)		CSE	FREE STUDY TIME	FREE STUDY TIME

10 th Week	27.12.2021 Monday	28.12.2021 Tuesday	29.12.2021 Wednesday	30.12.2021 Thursday	31.12.2021 Friday
08.30-09.15	PHASE II APPLIED EXAM	DÖNEM II PRATİK SINAV	PHASE II APPLIED EXAM	FREE STUDY TIME	
09.30-10.15	PHASE II APPLIED EXAM	PHASE II APPLIED EXAM	PHASE II APPLIED EXAM	PHASE II THEORETICAL EXAM	
10.30-11.15	PHASE II APPLIED EXAM	PHASE II APPLIED EXAM	PHASE II APPLIED EXAM	PHASE II THEORETICAL EXAM	
11.30-12.15	PHASE II APPLIED EXAM	PHASE II APPLIED EXAM	PHASE II APPLIED EXAM	PHASE II THEORETICAL EXAM	
13.30-14.15	PHASE II APPLIED EXAM	ONLINE COURSES ELECTIVE COURSES TIME: 15.30-16.30 ENGLISH TIME: 17.30-18.20	PHASE II APPLIED EXAM	FREE STUDY TIME	
14.30-15.15	PHASE II APPLIED EXAM		PHASE II APPLIED EXAM	FREE STUDY TIME	
15.30-16.15	PHASE II APPLIED EXAM		PHASE II APPLIED EXAM	FREE STUDY TIME	
16.30-17.15	PHASE II APPLIED EXAM		PHASE II APPLIED EXAM	FREE STUDY TIME	