

GAZI UNIVERSITY FACULTY OF MEDICINE

YEAR 2

2022-2023 EDUCATIONAL YEAR

RESPIRATORY AND CARDIOVASCULAR SYSTEMS COMMITTEE

(28.10.2022-29.12.2022)

COURSES	THEORETICAL	LAB	TOTAL
Anatomy	23	12X2	35
Biophysics	12	-	12
Physiology	47	8x4	55
Histology and Embryology	24	12x2	36
Immunology	20	-	20
TOTAL	126	32	158
Elective Lectures	18		18
INTRODUCTION TO MEDICINE			
CLINICAL SKILLS (CSE)		2	2
Communication Skills	8		8
Medical English	18		18
TOTAL	162	34	204

26.12.2022	Monday	Year 2 Applied Exam	Saat : 08.30
27.12.2022	Tuesday	Year 2 Applied Exam	Saat : 08.30
28.12.2022	Wednesday	Year 2 Applied Exam	Saat : 08.30
29.12.2022	Thursday	Year 2 Theoretical Exam	Saat : 09:30

Dean	Prof.Dr. Mustafa Necmi İLHAN
Vice Dean	Prof. Dr. İlyas OKUR
Vice Dean	Prof. Dr. Özlem GÜZEL TUNÇCAN
Head Coordinator	Prof.Dr. Çiğdem ÖZER
Assistant Head Coordinator	Prof.Dr. Akif Muhtar ÖZTÜRK
Assistant Head Coordinator	Prof.Dr. Mehmet Ali ERGÜN
Phase II Coordinator	Assist. Prof. Dr. S.Esra ÖZKOÇER
Assistant Phase II Coordinator	Assist. Prof. Dr. Zeynep YIĞMAN (Eng)
Assistant Phase II Coordinator	Teach. Assist. Dr. Pelin TÜRKKAN
Assistant Phase II Coordinator	Teach. Assist. Dr. Nihan ÖRÜKLÜ

COMMITTEE MEMBERS

ANATOMY	HISTOLOGY AND EMBRYLOGY	PHYSIOLOGY	BIOPHYSICS	IMMUNOLOGY
Dr. Meltem BAHÇELİOĞLU	Dr.Çiğdem ELMAS	Dr. Şevin GÜNEY	Dr. Bahriye SIRAV ARAL	Dr. Vedat BULUT
Dr. Kerem ATALAR	Dr. Cemile Merve SEYMEN	Dr. Meltem SEVGİLİ		Dr. Ayşegül ATAK YÜCEL
	Dr. Zeynep YIĞMAN	Dr. Pelin TÜRKKAN		Dr. Ümit BAĞRIAÇIK
	Dr. Esra ÖZKOÇER			Dr. Resul KARAKUŞ
	Dr. Duygu DAYANIR			

ANATOMY LAB.	HISTOLOGY AND EMBRYLOGY LAB.	PHYSIOLOGY LAB.
Dr. Meltem BAHÇELİOĞLU	Dr. Çiğdem ELMAS	Dr. Şevin GÜNEY
Dr. Kerem ATALAR	Dr. Gülnur TAKE KAPLANOĞLU	Dr. Meltem SEVGİLİ
	Dr. Cemile Merve SEYMEN	Dr. Pelin TÜRKKAN
	Dr. Zeynep YIĞMAN	
	Dr. Esra ÖZKOÇER	
	Dr. Duygu DAYANIR	

Communication Skills Coordinator	Prof. Dr. Bülent BOYACI
Elective Course Coordinator	Assoc. Prof. Dr. Ergin DİLEKÖZ
Clinical Skills Education Coordinator	Prof. Dr. Melda AYBAR TÜRKOĞLU

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

1th week	24.10.2022 MONDAY	25.10.2022 TUESDAY	26.10.2022 WEDNESDAY	27.10.2022 THURSDAY	28.10.2022 FRIDAY
08:30-09:20					FREE STUDY TIME
09:30-10:20					FREE STUDY TIME
10:30-11:20					FREE STUDY TIME
11:30-12:20					FREE STUDY TIME
13:30-14:20					REPUBLIC DAY
14:30-15:20					REPUBLIC DAY
15:30-16:20					REPUBLIC DAY
16:30-17:20					REPUBLIC DAY

2 nd week	31.10.2022 MONDAY	01.11.2022 TUESDAY	02.11.2022 WEDNESDAY	03.11.2022 THURSDAY	04.11.2022 FRIDAY 1 st Year Exam
08:30-09:20	Thoracic wall, Anatomy of the Heart Dr. BAHÇELİOĞLU	FREE STUDY TIME	Hematopoiesis Dr. DAYANIR	Mediastinum Dr. BAHÇELİOĞLU	Vessels of the head and neck Dr. ATALAR
09:30-10:20	Thoracic wall, Anatomy of the Heart Dr. BAHÇELİOĞLU	Questions Analysis of 1st Committee Exam and Feedback	Hematopoiesis Dr. DAYANIR	Fetal circulation Dr. BAHÇELİOĞLU	Lymphatic system Dr. ATALAR
10:30-11:20	Circulatory system histology Dr. ÖZKOÇER	Lymphocytes Dr. KARAKUŞ	Functions of blood, physical and chemical properties Dr. TÜRKKAN	Vessels of the head and neck Dr. ATALAR	Lymphocyte subgroups Dr. KARAKUŞ
11:30-12:20	Circulatory system histology Dr. ÖZKOÇER	Lymphocytes Dr. KARAKUŞ	Functions of blood, physical and chemical properties Dr. TÜRKKAN	Vessels of the head and neck Dr. ATALAR	Lymphocyte subgroups Dr. KARAKUŞ
13:30-14:20	Circulatory system histology Dr. ÖZKOÇER	Medical English	Anatomy of the heart Dr. BAHÇELİOĞLU	Cells of Lymphoid tissue Dr. ÖZKOÇER	Regulation of Hemapoiesis Dr. TÜRKKAN
14:30-15:20	Blood Dr. DAYANIR	Medical English	Anatomy of the heart Dr. BAHÇELİOĞLU	Cells of Lymphoid tissue Dr. ÖZKOÇER	Regulation of Hemapoiesis Dr. TÜRKKAN
15:30-16:20	Blood Dr. DAYANIR	Elective Courses	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME
16:30-17:20	FREE STUDY TIME	Elective Courses	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME

3 rd week	07.11.2022 MONDAY	08.11.2022 TUESDAY	09.11.2022 WEDNESDAY	10.11.2022 THURSDAY	11.11.2022 FRIDAY 3 rd YEAR EXAM
08:30-09:20	FREE STUDY TIME	Lymphatic system Dr. ATALAR	CSE	FREE STUDY TIME	FREE STUDY TIME
09:30-10:20	Basic principles of cardiac electrophysiology and myocardial contraction Dr. GÜNEY	Lymphatic system Dr. ATALAR	CSE	Tonsil and Lymph node Dr. ÖZKOÇER	Cells other than lymphocytes involved in immune response Dr. KARAKUŞ
10:30-11:20	Basic principles of cardiac electrophysiology and myocardial contraction Dr. GÜNEY	Regulation of heart functions DR. GÜNEY	CSE	Tonsil and Lymph node Dr. ÖZKOÇER	Cells other than lymphocytes involved in immune response Dr. KARAKUŞ
11:30-12:20	Basic principles of cardiac electrophysiology and myocardial contraction Dr. GÜNEY	Regulation of heart functions DR. GÜNEY	CSE	Heart valves and heart sounds DR. GÜNEY	Immune system organs Dr. BAĞRIAÇIK
13:30-14:20	Functions of Erythrocytes Dr. TÜRKKAN	Medical English	Destruction of Erythrocytes. Anemia-Politemia Dr. TÜRKKAN	Spleen and Thymus Dr. YIĞMAN	Leucocyte functions Dr. TÜRKKAN
14:30-15:20	Functions of Erythrocytes Dr. TÜRKKAN	Medical English	Blood groups, transfusion, determination of blood volume Dr. TÜRKKAN	Spleen and Thymus Dr. YIĞMAN	Leucocyte functions Dr. TÜRKKAN
15:30-16:20	FREE STUDY TIME	Elective Courses	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME
16:30-17:20	FREE STUDY TIME	Elective Courses	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME

4 th week	14.11.2022 MONDAY	15.11.2022 TUESDAY	16.11.2022 WEDNESDAY	17.11.2022 THURSDAY	18.11.2022 FRIDAY
08:30-09:20	FREE STUDY TIME	Anatomy Lab (1) Histology Lab (1)	Physiology Lab (1)	FREE STUDY TIME	FREE STUDY TIME
09:30-10:20	Forces on active erythrocytes:Stoke's Law Dr. SIRAV ARAL	Anatomy Lab (1) Histology Lab (1)	Physiology Lab (1)	Nose Anatomy Dr. ATALAR	FREE STUDY TIME
10:30-11:20	Forces on active erythrocytes:Stoke's Law Dr. SIRAV ARAL	Anatomy Lab (1) Histology Lab (1)	Physiology Lab (1)	Nose Anatomy Dr. ATALAR	English Exam
11:30-12:20	Circulatory system embryology Dr. ÖZKOÇER	Anatomy Lab (1) Histology Lab (1)	Physiology Lab (1)	Antigen processing and presentation Dr. BULUT	English Exam
13:30-14:20	Circulatory system embryology Dr. ÖZKOÇER	Medical English	Phagocytosis Dr. TÜRKKAN	Training, changes in pressure-velocity and kinetic energy due to pathological cont of arteries Dr. SIRAV ARAL	The cardiac cycle and pressure changes DR. GÜNEY
14:30-15:20	MHC molecules: structure and function Dr.BULUT	Medical English	Platelet functions Dr. TÜRKKAN	Training, changes in pressure-velocity and kinetic energy due to pathological cont of arteries Dr. SIRAV ARAL	The cardiac cycle and pressure changes DR. GÜNEY
15:30-16:20	MHC molecules: structure and function Dr.BULUT	Elective Courses	Pressure in Circulation System:Bernoulli Law, Velocity and Flow in internal frictional flowing:Poiseulli law Dr. SIRAV ARAL	FREE STUDY TIME	FREE STUDY TIME
16:30-17:20	FREE STUDY TIME	Elective Courses	Pressure in Circulation System:Bernoulli Law, Velocity and Flow in internal frictional flowing:Poiseulli law Dr. SIRAV ARAL	FREE STUDY TIME	FREE STUDY TIME

5 th week	21.11.2022 MONDAY	22.11.2022 TUESDAY	23.11.2022 WEDNESDAY	24.11.2022 THURSDAY	25.11.2022 FRIDAY
08:30-09:20	FREE STUDY TIME	Anatomy Lab (2) Histology Lab (2)	Physiology Lab (2)	Larynx Dr. BAHÇELIOĞLU	FREE STUDY TIME
09:30-10:20	Mechanism of coagulation Dr. TÜRKKAN	Anatomy Lab (2) Histology Lab (2)	Physiology Lab (2)	Larynx Dr. BAHÇELIOĞLU	FREE STUDY TIME
10:30-11:20	Mechanism of coagulation Dr. TÜRKKAN	Anatomy Lab (2) Histology Lab (2)	Physiology Lab (2)	The factors affecting blood pressure Dr. SEVGİLİ	Trachea, lungs and diaphragm Dr. ATALAR
11:30-12:20	Circulatory system embryology Dr. ÖZKOÇER	Anatomy Lab (2) Histology Lab (2)	Physiology Lab (2)	The factors affecting blood pressure Dr. SEVGİLİ	Trachea, lungs and diaphragm Dr. ATALAR
13:30-14:20	Circulatory system embryology Dr. ÖZKOÇER	Medical English	Principles of hemodynamics Dr. SEVGİLİ	ECG DR. GÜNEY	ECG DR. GÜNEY
14:30-15:20	Functional organization of blood vessels Dr. SEVGİLİ	Medical English	Principles of hemodynamics Dr. SEVGİLİ	ECG DR. GÜNEY	T and B cells repertoire mechanisms Dr. BAĞRIAÇIK
15:30-16:20	Functional organization of blood vessels Dr. SEVGİLİ	Elective Courses	FREE STUDY TIME	FREE STUDY TIME	T and B cells repertoire mechanisms Dr. BAĞRIAÇIK
16:30-17:20	FREE STUDY TIME	Elective Courses	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME

6th week	28.11.2022 MONDAY	29.11.2022 TUESDAY	30.11.2022 WEDNESDAY	01.12.2022 THURSDAY	02.12.2022 FRIDAY
08:30-09:20	Autoregulation and capillary dynamics Dr. SEVGİLİ	Anatomy Lab (3) Histology Lab (3)	Physiology Lab (3)	FREE STUDY TIME	FREE STUDY TIME
09:30-10:20	Autoregulation and capillary dynamics Dr. SEVGİLİ	Anatomy Lab (3) Histology Lab (3)	Physiology Lab (3)	FREE STUDY TIME	FREE STUDY TIME
10:30-11:20	Cytokines Dr. ATAK YÜCEL	Anatomy Lab (3) Histology Lab (3)	Physiology Lab (3)	The functions of the respiratory system Dr. SEVGİLİ	Clinical and Radiographic Anatomy Dr. BAHÇELİOĞLU
11:30-12:20	Cytokines Dr. ATAK YÜCEL	Anatomy Lab (3) Histology Lab (3)	Physiology Lab (3)	Mechanics of breathing and physical principles Dr. SEVGİLİ	Clinical and Radiographic Anatomy Dr. BAHÇELİOĞLU
13:30-14:20	Laplace law and autoregulation of pressure Dr. SIRAV ARAL	Medical English	Communication Skills	Conducting portion of respiratory system Dr. ELMAS	Quantitative relations of respiration Dr. SEVGİLİ
14:30-15:20	Laplace law and autoregulation of pressure Dr. SIRAV ARAL	Medical English	Communication Skills	Conducting portion of respiratory system Dr. ELMAS	Diffusion of gases through the respiratory membrane Dr. SEVGİLİ
15:30-16:20	FREE STUDY TIME	Elective Courses	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME
16:30-17:20	FREE STUDY TIME	Elective Courses	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME

7 th week	05.12.2022 MONDAY	06.12.2022 TUESDAY	07.12.2022 WEDNESDAY	08.12.2022 THURSDAY	09.12.2022 FRIDAY
08:30-09:20	FREE STUDY TIME	Anatomy Lab (4) Histology Lab (4)	Physiology Lab (4)	FREE STUDY TIME	Physiology Lab (5)
09:30-10:20	FREE STUDY TIME	Anatomy Lab (4) Histology Lab (4)	Physiology Lab (4)	FREE STUDY TIME	Physiology Lab (5)
10:30-11:20	Respiratory portion of respiratory system Dr. ELMAS	Anatomy Lab (4) Histology Lab (4)	Physiology Lab (4)	Adhesion molecules structure and function Dr. BAĞRIAÇIK	Physiology Lab (5)
11:30-12:20	Respiratory portion of respiratory system Dr. ELMAS	Anatomy Lab (4) Histology Lab (4)	Physiology Lab (4)	Chemokines and their receptors Dr. ATAK YÜCEL	Physiology Lab (5)
13:30-14:20	Hb-O ₂ Binding and Dissociation Curve Dr. SEVGİLİ	Medical English	Communication Skills	Resp. system and its dynamic properties. Gas laws related with respiration, application of Poiseulle and Laplace Laws in respiratory system Dr. SIRAV ARAL	Complement System Dr. BAĞRIAÇIK
14:30-15:20	O ₂ , CO ₂ Transport by the Blood Dr. SEVGİLİ	Medical English	Communication Skills	Resp. system and its dynamic properties. Gas laws related with respiration, application of Poiseulle and Laplace Laws in respiratory system Dr. SIRAV ARAL	Complement System Dr. BAĞRIAÇIK
15:30-16:20	FREE STUDY TIME	Elective Courses	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME
16:30-17:20	FREE STUDY TIME	Elective Courses	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME

8th week	12.12.2022 MONDAY	13.12.2022 TUESDAY	14.12.2022 WEDNESDAY	15.12.2022 THURSDAY	16.12.2022 FRIDAY 3rd YEAR EXAM
08:30-09:20	FREE STUDY TIME	Anatomy Lab (5) Histology Lab (5)	Physiology Lab (6)	FREE STUDY TIME	Physiology Lab (7)
09:30-10:20	FREE STUDY TIME	Anatomy Lab (5) Histology Lab (5)	Physiology Lab (6)	Coronary circulation Dr. SEVGİLİ	Physiology Lab (7)
10:30-11:20	Fetal and Pulmonary circulation Dr. SEVGİLİ	Anatomy Lab (5) Histology Lab (5)	Physiology Lab (6)	Circulatory Shock and Physiological Mechanisms in Some Cardiovascular Diseases Dr. GÜNEY	Physiology Lab (7)
11:30-12:20	Fetal and Pulmonary circulation Dr. SEVGİLİ	Anatomy Lab (5) Histology Lab (5)	Physiology Lab (6)	Circulatory Shock and Physiological Mechanisms in Some Cardiovascular Diseases Dr. GÜNEY	Physiology Lab (7)
13:30-14:20	Cellular and Humoral Immune Response Dr. KARAKUŞ	Medical English	Communication Skills	Clinical and Radiographic Anatomy Dr. BAHÇELİOĞLU	Regulation of Respiration Dr. SEVGİLİ
14:30-15:20	Cellular and Humoral Immune Response Dr. KARAKUŞ	Medical English	Communication Skills	Clinical and Radiographic Anatomy Dr. BAHÇELİOĞLU	Regulation of Respiration Dr. SEVGİLİ
15:30-16:20	FREE STUDY TIME	Elective Courses	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME
16:30-17:20	FREE STUDY TIME	Elective Courses	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME

9 th week	19.12.2022 MONDAY	20.12.2022 TUESDAY	21.12.2022 WEDNESDAY	22.12.2022 THURSDAY 1 st YEAR EXAM	23.12.2022 FRIDAY
08:30-09:20	FREE STUDY TIME	FREE STUDY TIME	Physiology Lab (8)	Anatomy Lab (6) Histology Lab(6)	FREE STUDY TIME
09:30-10:20	Respiratory System Under Stress Dr. SEVGİLİ	Clinical and Radiographic Anatomy Dr. BAHÇELİOĞLU	Physiology Lab (8)	Anatomy Lab (6) Histology Lab(6)	FREE STUDY TIME
10:30-11:20	Respiratory System Embryology Dr. SEYMEN	Surface Tension and Alveolus Mechanics Compliance in Lung and Breast Dr. SIRAV ARAL	Physiology Lab (8)	Anatomy Lab (6) Histology Lab(6)	FREE STUDY TIME
11:30-12:20	Respiratory System Embryology Dr. SEYMEN	Surface Tension and Alveolus Mechanics Compliance in Lung and Breast Dr. SIRAV ARAL	Physiology Lab (8)	Anatomy Lab (6) Histology Lab(6)	FREE STUDY TIME
13:30-14:20	Respiratory System Embryology Dr. SEYMEN	Medical English	Communication Skills	Physiology Lab (Make Up)	FREE STUDY TIME
14:30-15:20	FREE STUDY TIME	Medical English	Communication Skills	Physiology Lab (Make Up)	FREE STUDY TIME
15:30-16:20	FREE STUDY TIME	Elective Courses	FREE STUDY TIME	Physiology Lab (Make Up)	FREE STUDY TIME
16:30-17:20	FREE STUDY TIME	Elective Courses	FREE STUDY TIME	Physiology Lab (Make Up)	FREE STUDY TIME

10th week	26.12.2022 MONDAY	27.12.2022 TUESDAY	28.12.2022 WEDNESDAY	29.12.2022 THURSDAY	30.12.2022 FRIDAY
08:30-09:20	YEAR 2 APPLIED EXAM	YEAR 2 APPLIED EXAM	YEAR 2 APPLIED EXAM	FREE STUDY TIME	FREE STUDY TIME
09:30-10:20	YEAR 2 APPLIED EXAM	YEAR 2 APPLIED EXAM	YEAR 2 APPLIED EXAM	YEAR 2 THEORETICAL EXAM	FREE STUDY TIME
10:30-11:20	YEAR 2 APPLIED EXAM	YEAR 2 APPLIED EXAM	YEAR 2 APPLIED EXAM	YEAR 2 THEORETICAL EXAM	FREE STUDY TIME
11:30-12:20	YEAR 2 APPLIED EXAM	YEAR 2 APPLIED EXAM	YEAR 2 APPLIED EXAM	YEAR 2 THEORETICAL EXAM	FREE STUDY TIME
13:30-14:20	YEAR 2 APPLIED EXAM	Medical English	YEAR 2 APPLIED EXAM	YEAR 2 THEORETICAL EXAM	FREE STUDY TIME
14:30-15:20	YEAR 2 APPLIED EXAM	Medical English	YEAR 2 APPLIED EXAM	FREE STUDY TIME	FREE STUDY TIME
15:30-16:20	YEAR 2 APPLIED EXAM	Elective Courses	YEAR 2 APPLIED EXAM	FREE STUDY TIME	FREE STUDY TIME
16:30-17:20	YEAR 2 APPLIED EXAM	Elective Courses	YEAR 2 APPLIED EXAM	FREE STUDY TIME	FREE STUDY TIME

