

**KYRENIA UNIVERSITY FACULTY OF
MEDICINE 2023-2024
PHASE II
RESPIRATORY AND CARDIOVASCULAR SYSTEMS COMMITTEE
(30.10.2023-22.12.2023)**

COURSES	THEORETICAL	LAB	TOTAL
Anatomy	23	6X2	35
Biophysics	12	-	12
Physiology	46	10X2	66
Histology and Embryology	24	6X2	36
Biyokimya	4	-	4
Immunology	18		18
TOTAL	127	44	171

Dean	Prof. Dr. Rveyde Bundak
Vice Dean	Prof. Dr. Candan zoęul
Coordinator	Dr. Mete zkoę

MEMBERS OF COMMITTEE

ANATOMY		PHYSIOLOGY		HISTOLOGY & EMBRYOLOGY	IMMUNOLOGY
Assist. Prof. Shahnaz Sabetkam	Assist. Prof. Yavuz Arıcan	Prof. Dr. Deniz Erbař	Prof. Dr. Ethem Gelir	Prof. Dr. Candan zoęul	Assoc Prof. İshak zel Tekin
Prof. Dr. Nurettin Oęuz	Prof. Dr. Nail Bulakbařı	Prof. Dr. Cem řeref Bediz	Assist. Prof. Meltem Sevgili	Prof. Dr. Bekir Uęur Ergr	BIOPHYSICS
Dr. İskender Yılmaz		Assist. Prof. Hanadi Sourg		Prof. Dr. Gven Erbil	Prof. Dr. Ferit Pehlivan
		Dr..Glden Madi			
		BIOCHEMISTRY			
Prof. Dr. Levent Kayrın			Dr. Mete zkoę		

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

To be able to describe the anatomical, histological and embryological structure of the heart, explain its functional properties

To be able to say the contraction mechanisms of the heart muscle and may understand the regulation of heart functioning

To be able to explain the ECG

can describe the anomalies and malformations of the cardiovascular system

to explain the anatomical, histological and functional properties of the structures forming the cardiovascular system

to explain the flow of blood, blood pressure and regulation mechanisms, connection with related physics laws

to describe fetal, pulmonary and coronary circulation

to define the lymphoreticular system

To be able to define the anatomical, histological and embryological structure of the respiratory system and explain its functional properties

Describe the properties and functions of structures specific to respiratory system Describe the properties and functions of blood and cells

Explain the functions of immune system organs, cells, MHC molecules, T and B cells

To be able to interpret the types of respiratory and respiratory pathologies

Application Based (practical skills)

to be able to use basic communication skill

to demonstrate the ability to establish vascular access

To be able to show the differences between the structures of cardiovascular system and the respiratory system under the microscope

to demonstrate Hb, Htc, sedimentation, blood group studies

to be able to show the heart's various systems

to determine CO₂ in breathing air, analyze NO

to apply respiratory function tests

to be able to take and interpret ECG

Skills Based (intellectual and transferable skills)

to be aware of working with a living organ or subject.

to recognize the responsibility to behave in a way that does not cause damage during operations

to be aware of cadaver and microscope studies

1 st Week	30.10.2023 Monday	31.10.2023 Tuesday	01.11.2023 Wednesday	02.11.2023 Thursday	03.11.2023 Friday
08.30-09.15	Questions Analysis of 1st Committee Exam and Feedback	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME
09.30-10.15	Thoracic wall Dr. Sabetkam	Diafragma Dr. Sabetkam	Functions of blood, physical and chemical properties Dr. Sourg	Regulation of Hemopoiesis Dr. Sourg	Phagocytic cells and phagocytosis (Online) Dr. Tekin
10.30-11.15	Mediastinum Dr. Sabetkam	Anatomy of the heart Dr. Sabetkam	Functions of blood, physical and chemical properties Dr. Sourg	Regulation of Hemopoiesis Dr. Sourg	NK and NK cell subgroups (Online) Dr. Tekin
11.30-12.15	Mediastinum Dr. Sabetkam	Anatomy of the heart Dr. Sabetkam	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME
13.30-14.15	FREE STUDY TIME	Immune systems organs Lymphocytes (Online) Dr. Tekin	Circulatory system histology Dr. Özoğul	Structures entering and exiting the heart Dr. Sabetkam	Cytokines (Online) Dr. Tekin
14.30-15.15	FREE STUDY TIME	Innate Immune cells (Neutrophils, Eosinophils, Mast cell. Lymphocytes (Online) Dr. Tekin	Circulatory system histology Dr. Özoğul	Structures entering and exiting the heart Dr. Sabetkam	Cytokines (Online) Dr. Tekin
15.30-16.15	FREE STUDY TIME	Complement system and regulation (Online) Dr. Tekin	Circulatory system histology Dr. Özoğul	FREE STUDY TIME	FREE STUDY TIME
16.30-17.15	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME

2 nd Week	06.11.2023 Monday	07.11.2023 Tuesday	08.11.2023 Wednesday	09.11.2023 Thursday	10.11.2023 Friday
08.30-09.15	FREE STUDY TIME	FREE STUDY TIME	Physiology Lab (1)	FREE STUDY TIME	Development of T lymphocytes (Online) Dr. Tekin
09.30-10.15	Basic principles of cardiac electrophysiology and myocardial contraction Dr. Sevgili	ECG Dr. Sevgili	Physiology Lab (1)	Functions of Erythrocytes Dr. Sourg	Development of B lymphocytes (Online) Dr. Tekin
10.30-11.15	Basic principles of cardiac electrophysiology and myocardial contraction Dr. Sevgili	ECG Dr. Sevgili	Physiology Lab (1)	Functions of Erythrocytes Dr. Sourg	Heart Dipole and ECG formation Dr. Pehlivan (Online)
11.30-12.15	Basic principles of cardiac electrophysiology and myocardial contraction Dr. Sevgili	ECG Dr. Sevgili	Physiology Lab (1)	FREE STUDY TIME	Einthoven Triangle: Leads ECG recorders Dr. Pehlivan (Online)
13.30-14.15	Lymphatic system Dr. Sabetkam	Circulatory system embryology Dr. Ergür	cells involved in the immune response Dr. Ergür	Vessels of the head and neck Dr. Sabetkam	FREE STUDY TIME
14.30-15.15	Lymphatic system Dr. Sabetkam	Circulatory system embryology Dr. Ergür	cells involved in the immune response Dr. Ergür	Vessels of the head and neck Dr. Sabetkam	Blood groups, transfusion, determination of blood volume Dr. Sourg
15.30-16.15	Lymphatic system Dr. Sabetkam	Circulatory system embryology Dr. Ergür	Blood Dr. Ergür	FREE STUDY TIME	Destruction of Erythrocytes. Anemia-Polistemia Dr. Sourg
16.30-17.15	FREE STUDY TIME	Circulatory system embryology Dr. Ergür	Blood Dr. Ergür	FREE STUDY TIME	FREE STUDY TIME

3rd Week	13.11.2023 Monday	14.11.2023 Tuesday	15.11.2023 Wednesday	16.11.2023 Thursday	17.11.2023 Friday
08.30-09.15	Nose and nasal sinus Anatomy Dr. Sabetkam	FREE STUDY TIME	RESMİ TATİL	FREE STUDY TIME	FREE STUDY TIME
09.30-10.15	Nose and nasal sinus Anatomy Dr. Sabetkam	Heart valves and heart sounds (Online) Dr. Sevgili	RESMİ TATİL	FREE STUDY TIME	FREE STUDY TIME
10.30-11.15	Larynx Dr. Sabetkam	The cardiac cycle and pressure changes (Online) Dr. Sevgili	RESMİ TATİL	Functions of T lymphocytes (Online) Dr. Tekin	Regulation of heart functions (Online) Dr. Sevgili
11.30-12.15	Larynx Dr. Sabetkam	The cardiac cycle and pressure changes (Online) Dr. Sevgili	RESMİ TATİL	B Lymphocytes Activation (Online) Dr. Tekin	Regulation of heart functions (Online) Dr. Sevgili
13.30-14.15	Leucocyte functions Dr. Madi	Hematopoiesis Dr. Özoğul	RESMİ TATİL	MHC molecules structure and functions (Online) Dr. Tekin	FREE STUDY TIME
14.30-15.15	Leucocyte functions Dr. Madi	Hematopoiesis Dr. Özoğul	RESMİ TATİL	Antigen processing and presentation (Online) Dr. Tekin	Tonsil and Lymph node Dr. Özoğul
15.30-16.15	Phagocytosis Dr. Madi	FREE STUDY TIME	RESMİ TATİL	FREE STUDY TIME	Tonsil and Lymph node Dr. Özoğul
16.30-17.15	FREE STUDY TIME	FREE STUDY TIME	RESMİ TATİL	FREE STUDY TIME	FREE STUDY TIME

4 th Week	20.11.2023 Monday	21.11.2023 Tuesday	22.11.2023 Wednesday	23.11.2023 Thursday	24.11.2023 Friday
08.30-09.15	Physiology Lab (3)	Anatomy Lab (1) Histology Lab (1)	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME
09.30-10.15	Physiology Lab (3)	Anatomy Lab (1) Histology Lab (1)	Respiratory system embryology Dr. Erbil	Physiological mechanisms in some cardiovascular diseases (cardiac failure, circulatory shock) (Online) Dr. Sevgili	FREE STUDY TIME
10.30-11.15	Physiology Lab (4)	Anatomy Lab (2) Histology Lab (2)	Respiratory system embryology Dr. Erbil	Physiological mechanisms in some cardiovascular diseases (cardiac failure, circulatory shock) (Online) Dr. Sevgili	Upper respiratory tract histology Dr. Özoğul
11.30-12.15	Physiology Lab (4)	Anatomy Lab (2) Histology Lab (2)	Respiratory system embryology Dr. Erbil	FREE STUDY TIME	Upper respiratory tract histology Dr. Özoğul
13.30-14.15	Platelet function Dr. Madi	Blood Gases and their functions Dr Kayrın	Physiology Lab (5)	Evaluation of immune system functions (Online) Dr. Tekin	Fetal and pulmonary circulation (Online) Dr. Sevgili
14.30-15.15	Mechanism of coagulation Dr. Madi	Blood Gases and their functions Dr Kayrın	Physiology Lab (5)	Serological Tests (Online) Dr. Tekin	Fetal and pulmonary circulation (Online) Dr. Sevgili
15.30-16.15	Mechanism of coagulation Dr. Madi	Spleen and Thymus Dr. Özoğul	Physiology Lab (6)	FREESTUDY TIME	Coranary circulation (Online) Dr. Sevgili
16.30-17.15	FREE STUDY TIME	Spleen and Thymus Dr. Özoğul	Physiology Lab (6)	FREE STUDY TIME	FREE STUDY TIME

5 th Week	27.11.2023 Monday	28.11.2023 Tuesday	29.11.2023 Wednesday	30.11.2023 Thursday	01.12.2023 Friday
08.30-09.15	Principles of hemodynamic Dr. Sourg	Anatomy Lab (3) Histology Lab (3)	Functional organization of blood vessels Dr. Sourg	FREE STUDY TIME	FREE STUDY TIME
09.30-10.15	Principles of hemodynamic Dr. Sourg	Anatomy Lab (3) Histology Lab (3)	Functional organization of blood vessels Dr. Sourg	Clinical Anatomy Dr. Sabetkam	FREE STUDY TIME
10.30-11.15	Trachea, lungs and diaphragm Dr. Sabetkam	Anatomy Lab (4) Histology Lab (4)	Blood Gases and their functions Dr Kayrın	Clinical Anatomy Dr. Sabetkam	Auto regulation and capillary dynamics Dr. Erbaş
11.30-12.15	Trachea, lungs and diaphragm Dr. Sabetkam	Anatomy Lab (4) Histology Lab (4)	Blood Gases and their functions Dr Kayrın	Clinical Anatomy Dr. Sabetkam	Auto regulation and capillary dynamics Dr. Erbaş
13.30-14.15	Lower respiratory tract histology Dr. Özoğul	Vaccinations (Online) Dr. Tekin	FREE STUDY TIME	Channels in Heart Cells, Conduction System of the Heart Dr. Pehlivan (Online)	Bernoulli's Principle, Poiseuille's Law Dr. Pehlivan (Online)
14.30-15.15	Lower respiratory tract histology Dr. Özoğul	Hypersensitivity reactions (Online) Dr. Tekin	FREE STUDY TIME	Circulatory Dynamics Circulating Hydrostatic Factor Dr. Pehlivan (Online)	Respiratory Dynamics, External Respiratory System Mechanics, Work of Respiration Dr. Pehlivan (Online)
15.30-16.15	FREE STUDY TIME	Hypersensitivity reactions (Online) Dr. Tekin	FREE STUDY TIME	Fluid properties of blood. Viscosity Dr. Pehlivan (Online)	Gas exchange in the alveoli, surface tension and alveolar mechanics Dr. Pehlivan (Online)
16.30-17.15	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME

6 th Week	04.12.2023 Monday	05.12.2023 Tuesday	06.12.2023 Wednesday	07.12.2023 Thursday	08.12.2023 Friday
08.30-09.15	FREE STUDY TIME	Anatomy Lab (5) Histology Lab (5)	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME
09.30-10.15	FREE STUDY TIME	Anatomy Lab (5) Histology Lab (5)	FREE STUDY TIME	FREE STUDY TIME	Solubility of gases in water Dr. Pehlivan (Online)
10.30-11.15	FREE STUDY TIME	Anatomy Lab (6) Histology Lab (6)	FREE STUDY TIME	FREE STUDY TIME	Respiratory parameters measurement methods Dr. Pehlivan (Online)
11.30-12.15	FREE STUDY TIME	Anatomy Lab (6) Histology Lab (6)	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME
13.30-14.15	Clinical Anatomy Dr. Sabetkam	The factors affecting blood pressure Dr. Erbaş	Laplace's Law, Pressure-Stress and Volume-Pressure in Circulation Dr. Pehlivan (Online)	Physiology Lab (7)	Physiology Lab (9)
14.30-15.15	Radiologic Anatomy Dr. Bulakbaşı	The factors affecting blood pressure Dr. Erbaş	Circulation Parameters Measurement Methods Dr. Pehlivan (Online)	Physiology Lab (7)	Physiology Lab (9)
15.30-16.15	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	Physiology Lab (8)	Physiology Lab (10)
16.30-17.15	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	Physiology Lab (8)	Physiology Lab (10)

7 th Week	11.12.2023 Monday	12.12.2023 Tuesday	13.12.2023 Wednesday	14.12.2023 Thursday	15.12.2023 Friday
08.30-09.15	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME
09.30-10.15	The functions of the respiratory system Dr. Gelir	O ₂ , CO ₂ Transport by the Blood Dr. Gelir	Regulation of Respiration Dr. Madi	FREE STUDY TIME	FREE STUDY TIME
10.30-11.15	Mechanics of breathing and physical principles Dr. Gelir	Hb-O ₂ Binding and Dissociation Curve Dr. Gelir	Regulation of Respiration Dr. Madi	FREE STUDY TIME	FREE STUDY TIME
11.30-12.15	Quantitative relations of respiration Dr. Gelir	Diffusion of gases through the respiratory membrane Dr. Gelir	Respiratory System under Stress Dr. Madi	FREE STUDY TIME	FREE STUDY TIME
13.30-14.15	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME
14.30-15.15	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME
15.30-16.15	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME
16.30-17.15	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME	FREE STUDY TIME

8thWeek	18.12.2023 Monday	19.12.2023 Tuesday	20.12.2023 Wednesday	21.12.2023 Thursday	22.12.2023 Friday
08.30-09.15	PRACTICAL EXAM	PRACTICAL EXAM	PRACTICAL EXAM	PRACTICAL EXAM	PHASE II THEORETICAL EXAM
09.30-10.15	PRACTICAL EXAM	PRACTICAL EXAM	PRACTICAL EXAM	PRACTICAL EXAM	PHASE II THEORETICAL EXAM
10.30-11.15	PRACTICAL EXAM	PRACTICAL EXAM	PRACTICAL EXAM	PRACTICAL EXAM	PHASE II THEORETICAL EXAM
11.30-12.15	PRACTICAL EXAM	PRACTICAL EXAM	PRACTICAL EXAM	PRACTICAL EXAM	PHASE II THEORETICAL EXAM
13.30-14.15	PRACTICAL EXAM	PRACTICAL EXAM	PRACTICAL EXAM	PRACTICAL EXAM	PHASE II THEORETICAL EXAM
14.30-15.15	PRACTICAL EXAM	PRACTICAL EXAM	PRACTICAL EXAM	PRACTICAL EXAM	PHASE II THEORETICAL EXAM
15.30-16.15	PRACTICAL EXAM	PRACTICAL EXAM	PRACTICAL EXAM	PRACTICAL EXAM	PHASE II THEORETICAL EXAM
16.30-17.15	PRACTICAL EXAM	PRACTICAL EXAM	PRACTICAL EXAM	PRACTICAL EXAM	PHASE II THEORETICAL EXAM

