# **GAZI UNIVERSITY FACULTY OF MEDICINE**

## YEAR 2

## 2024-2025 EDUCATIONAL YEAR

## RESPIRATORY AND CARDIOVASCULAR SYSTEMS COMMITTEE

(04.11.2024-03.01.2025)

| COURSES                           | THEORETICAL | LAB  | TOTAL |
|-----------------------------------|-------------|------|-------|
| Anatomy                           | 23          | 12x2 | 35    |
| Biophysics                        | 12          | -    | 12    |
| Physiology                        | 47          | 8x4  | 55    |
| Histology and Embryology          | 24          | 12x2 | 36    |
| Immunology                        | 20          | -    | 20    |
| Medical Education and Informatics | 5           | -    | 5     |
| TOTAL                             | 131         | 32   | 163   |
| Elective Lectures                 | 18          |      | 18    |
| INTRODUCTION TO MEDICINE          |             |      |       |
| CLINICAL SKILLS (CSE)             |             | 2    | 2     |
| Communication Skills              | 8           |      | 8     |
| Medical English                   | 18          |      | 18    |
| TOTAL                             | 162         | 34   | 204   |

| 30.12.2024 | Monday   | Year 2 Applied Exam     | Time: 08.30 |
|------------|----------|-------------------------|-------------|
| 31.12.2024 | Tuesday  | Year 2 Applied Exam     | Time: 08.30 |
| 02.01.2025 | Thursday | Year 2 Applied Exam     | Time: 08.30 |
| 03.01.2025 | Friday   | Year 2 Theoretical Exam | Time: 09:30 |

| Dean                                | Prof. Dr. Alper CEYLAN               |
|-------------------------------------|--------------------------------------|
| Vice Dean                           | Assoc. Prof. Dr. Nazmi Mutlu KARAKAŞ |
| Vice Dean                           | Assoc. Prof. Dr. Asiye UĞRAŞ DİKMEN  |
| Head Coordinator                    | Prof. Dr. Çiğdem ÖZER                |
| Assistant Head Coordinator          | Prof. Dr. Akif Muhtar ÖZTÜRK         |
| Assistant Head Coordinator(ENG)     | Prof. Dr. Mehmet Ali ERGÜN           |
| Year 2Coordinator                   | Assist. Prof. Dr. Duygu DAYANIR      |
| <b>Assistant Year 2 Coordinator</b> | Teach. Assist. Dr. Pelin TÜRKKAN     |
| <b>Assistant Year 2 Coordinator</b> | Teach. Assist. Dr. Nihan ÖRÜKLÜ      |
| <b>Assistant Year 2 Coordinator</b> | Teach. Assist. Dr. Ayşe SOYLU        |

## **COMMITTEE MEMBERS**

| ANATOMY                   | HISTOLOGY AND EMBRYLOGY    | PHYSIOLOGY            | BIOPHYSICS                | IMMUNOLOGY                | MEDICAL EDUCATION AND INFORMATCS |
|---------------------------|----------------------------|-----------------------|---------------------------|---------------------------|----------------------------------|
| Dr. Meltem<br>BAHÇELİOĞLU | Dr.Çiğdem ELMAS            | Dr. Şevin GÜNEY       | Dr. Bahriye SIRAV<br>ARAL | Dr. Vedat BULUT           | Dr. Burcu KÜÇÜK<br>BIÇER         |
| Dr. Kerem ATALAR          | Dr. Cemile Merve<br>SEYMEN | Dr. Meltem<br>SEVGİLİ |                           | Dr. Ayşegül ATAK<br>YÜCEL |                                  |
|                           | Dr. Zeynep YIĞMAN          | Dr. Pelin TÜRKKAN     |                           | Dr. E. Ümit<br>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. Ayşe SOYLU         | Dr. Cemile Merve SEYMEN      | Dr. Pelin TÜRKKAN  |
| Dr. Onur ARAS          | Dr. Zeynep YIĞMAN            |                    |
|                        | Dr. Esra ÖZKOÇER             |                    |
|                        | Dr. Duygu DAYANIR            |                    |

| Communication Skills Coordinator      | Prof. Dr. Bülent BOYACI        |
|---------------------------------------|--------------------------------|
| <b>Elective Course Coordinator</b>    | 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 embriyological 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 spesific 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 demostrate 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

| 1 <sup>th</sup> week | 04.11.2024<br>MONDAY          | 05.11.2024<br>TUESDAY  | 06.11.2024 WEDNESDAY 3rd Year Exam  | 07.11.2024<br>THURSDAY  | 08.11.2024<br>FRIDAY                       |
|----------------------|-------------------------------|--|---|---|--|
| 08:30-09:20          | FREE STUDY<br>TIME            | FREE STUDY<br>TIME   | Basic principles of<br>cardiac<br>electrophysiology<br>and myocardial<br>contraction<br>Dr. GÜNEY | FREE STUDY<br>TIME  | FREE STUDY<br>TIME                         |
| 09:30-10:20          | YEAR 2<br>THEORETICAL<br>EXAM | Thoracic wall, Anatomy of the Heart Dr.BAHÇELIOĞLU               | Basic principles of cardiac electrophysiology and myocardial contraction Dr. GÜNEY                | Basic principles of<br>cardiac<br>electrophysiology<br>and myocardial<br>contraction<br>Dr. GÜNEY | Lymphocytes<br>Dr. KARAKUŞ                 |
| 10:30-11:20          | YEAR 2<br>THEORETICAL<br>EXAM | Thoracic wall, Anatomy of the Heart Dr.BAHÇELIOĞLU               | Anatomy of the<br>heart<br>Dr.BAHÇELIOĞLU   | Blood<br>Dr.DAYANIR   | Lymphocytes<br>Dr. KARAKUŞ                 |
| 11:30-12:20          | YEAR 2<br>THEORETICAL<br>EXAM | Electronic Health<br>Records and<br>Standards<br>Dr. KÜÇÜK BİÇER | Anatomy of the heart Dr.BAHÇELIOĞLU   | Blood<br>Dr.DAYANIR   | FREE STUDY<br>TIME                         |
| 13:30-14:20          | YEAR 2<br>THEORETICAL<br>EXAM | Medical<br>English   | Circulatory system<br>histology<br>Dr. ÖZKOÇER  | Mediastinum<br>Dr.BAHÇELİOĞLU   | Cells of Lymphoid<br>tissue<br>Dr. ÖZKOÇER |
| 14:30-15:20          | FREE STUDY<br>TIME            | Medical<br>English   | Circulatory system<br>histology Dr.<br>ÖZKOÇER  | Fetal circulation<br>Dr.<br>BAHÇELİOĞLU   | Cells of Lymphoid<br>tissue<br>Dr. ÖZKOÇER |
| 15:30-16:20          | FREE STUDY<br>TIME            | Elective<br>Courses  | FREE STUDY<br>TIME  | Circulatory system<br>histology<br>Dr.ÖZKOÇER   | FREE STUDY<br>TIME                         |
| 16:30-17:20          | FREE STUDY<br>TIME            | Elective<br>Courses  | FREE STUDY<br>TIME  | FREE STUDY<br>TIME  | FREE STUDY<br>TIME                         |

| 2 <sup>nd</sup> week | 11.11.2024<br>MONDAY  | 12.11.2024<br>TUESDAY   | 13.11.2024<br>WEDNESDAY                      | 14.11.2024<br>THURSDAY  | 15.11.2024<br>FRIDAY                                      |
|----------------------|---|-------------------------|--|---|---|
| 08:30-<br>09:20      | FREE STUDY<br>TIME  | CSE                     | FREE STUDY<br>TIME                           | FREE STUDY<br>TIME  | Regulation of heart<br>functions<br>DR.GÜNEY              |
| 09:30-<br>10:20      | FREE STUDY<br>TIME  | CSE                     | Vessels of the head and neck Dr.ATALAR       | The cardiac cycle<br>and pressure<br>changes<br>DR. GÜNEY         | Regulation of heart functions DR.GÜNEY                    |
| 10:30-<br>11:20      | Hematopoiesis  Dr. DAYANIR  | CSE                     | Vessels of the<br>head and neck<br>Dr.ATALAR | The cardiac cycle<br>and pressure<br>changes<br>DR. GÜNEY         | Forces on active erythrocytes:Stoke's Law  Dr. SIRAV ARAL |
| 11:30-<br>12:20      | Hematopoiesis  Dr. DAYANIR  | CSE                     | FREE STUDY<br>TIME                           | Vessels of the<br>head and neck<br>Dr.ATALAR                      | Forces on active erythrocytes:Stoke's Law  Dr. SIRAV ARAL |
| 13:30-<br>14:20      | Functions of blood,<br>physical and<br>chemical properties<br>Dr. TÜRKKAN | Medical<br>English      | FREE STUDY<br>TIME                           | Anatomy Lab (1)<br>(GroupA&B)<br>Histology Lab (1)<br>(GroupC&D)  | Lymphatic system<br>Dr.BAHÇELIOĞLU                        |
| 14:30-<br>15:20      | Functions of blood,<br>physical and<br>chemical properties<br>Dr. TÜRKKAN | Medical<br>English      | FREE STUDY<br>TIME                           | Anatomy Lab (1)<br>(GroupA&B)<br>Histology Lab (1)<br>(GroupC&D)) | Lymphatic system<br>Dr.BAHÇELIOĞLU                        |
| 15:30-<br>16:20      | Heart valves and heart sounds Dr.GÜNEY                                    | <b>Elective Courses</b> | FREE STUDY<br>TIME                           | Anatomy Lab (1)<br>(GroupC&D)<br>Histology Lab (1)<br>(GroupA&B)  | Lymphatic system<br>Dr.BAHÇELIOĞLU                        |
| 16:30-<br>17:20      | FREE STUDY<br>TIME  | <b>Elective Courses</b> | FREE STUDY<br>TIME                           | Anatomy Lab (1)<br>(GroupC&D)<br>Histology Lab (1)<br>(GroupA&B)  | FREE STUDY<br>TIME  |

| 3 <sup>rd</sup> week | 18.11.2024<br>MONDAY                   | 19.11.2024<br>TUESDAY   | 20.11.2024<br>WEDNESDAY  | 21.11.2024<br>THURSDAY  | 22.11.2024<br>FRIDAY                                    |
|----------------------|--|---|--|---|---|
| 08:30-09:20          | FREE STUDY<br>TIME                     | FREE STUDY<br>TIME  | FREE STUDY<br>TIME   | FREE STUDY<br>TIME  | FREE STUDY<br>TIME                                      |
| 09:30-10:20          | FREE STUDY<br>TIME                     | Destruction of Erythrocytes. Anemia-Polistemia Dr.TÜRKKAN                       | Questions<br>Analysis of 1st<br>Committee Exam<br>and Feedback | Mobile Health –<br>Wearable<br>technologies<br>Dr.KÜÇÜK BİÇER | Immune system<br>organs<br>Dr. BAĞRIAÇIK                |
| 10:30-11:20          | Regulation of Hematopoiesis Dr.TÜRKKAN | Blood groups,<br>transfusion,<br>determination of<br>blood volume<br>Dr.TÜRKKAN | Tonsil and Lymph<br>node<br>Dr.ÖZKOÇER                         | Cells other than lymphocytes involved in immune response      | Leucocyte<br>functions<br>Dr. TÜRKKAN                   |
| 11:30-12:20          | Regulation of Hematopoiesis Dr.TÜRKKAN | Telehealth – E-<br>health Dr. KÜÇÜK<br>BİÇER                                    | Tonsil and Lymph<br>node<br>Dr.ÖZKOÇER                         | Cells other than lymphocytes involved in immune response      | Leucocyte functions  Dr. TÜRKKAN                        |
| 13:30-14:20          | Functions of Erythrocytes Dr.TÜRKKAN   | Medical<br>English  | Phagocytosis<br>Dr. TÜRKKAN                                    | Spleen and<br>Thymus<br>Dr. YIĞMAN                            | Circulatory system embryology  Dr. ÖZKOÇER              |
| 14:30-15:20          | Functions of Erythrocytes Dr.TÜRKKAN   | Medical<br>English  | Platelet functions  Dr. TÜRKKAN                                | Spleen and<br>Thymus<br>Dr. YIĞMAN                            | Circulatory system embryology  Dr. ÖZKOÇER              |
| 15:30-16:20          | FREE STUDY<br>TIME                     | Elective<br>Courses   | Lymphocyte<br>subgroups<br>Dr.KARAKUŞ                          | FREE STUDY<br>TIME  | MHC molecules:<br>structure and<br>function<br>Dr.BULUT |
| 16:30-17:20          | FREE STUDY<br>TIME                     | Elective<br>Courses   | Lymphocyte<br>subgroups<br>Dr.KARAKUŞ                          | FREE STUDY<br>TIME  | MHC molecules:<br>structure and<br>function<br>Dr.BULUT |

| 4 <sup>th</sup> week | 25.11.2024<br>MONDAY                           | 26.11.2024<br>TUESDAY  | 27.11.2024<br>WEDNESDAY                    | 28.11.2024<br>THURSDAY               | 29.11.2024<br>FRIDAY  |
|----------------------|--|--|--|--------------------------------------|---|
| 08:30-09:20          | FREE STUDY<br>TIME                             | Anatomy Lab (2)<br>(GroupC&D)<br>Physiology Lab<br>(1)<br>(GroupA) | FREE STUDY<br>TIME                         | FREE STUDY<br>TIME                   | Physiology Lab<br>(1)<br>(GroupB)                             |
| 09:30-10:20          | FREE STUDY<br>TIME                             | Anatomy Lab (2)<br>(GroupC&D)<br>Physiology Lab<br>(1)<br>(GroupA) | FREE STUDY<br>TIME                         | ECG<br>Dr. GÜNEY                     | Physiology Lab<br>(1)<br>(GroupB)                             |
| 10:30-11:20          | FREE STUDY<br>TIME                             | Anatomy Lab (2)<br>(GroupA&B)<br>Physiology Lab<br>(1)<br>(GroupC) | Circulatory system embryology  Dr. ÖZKOÇER | Mechanism of coagulation Dr. TÜRKKAN | Physiology Lab<br>(1)<br>(GroupD)                             |
| 11:30-12:20          | FREE STUDY<br>TIME                             | Anatomy Lab (2)<br>(GroupA&B)<br>Physiology Lab<br>(1)<br>(GroupC) | Circulatory system embryology  Dr. ÖZKOÇER | Mechanism of coagulation Dr. TÜRKKAN | Physiology Lab<br>(1)<br>(GroupD)                             |
| 13:30-14:20          | Antigen processing and presentation  Dr. BULUT | Medical<br>English   | Communication<br>Skills                    | FREE STUDY<br>TIME                   | Functional<br>organization of<br>blood vessels<br>Dr. SEVGİLİ |
| 14:30-15:20          | FREE STUDY<br>TIME                             | Medical<br>English   | Communication<br>Skills                    | FREE STUDY<br>TIME                   | Functional<br>organization of<br>blood vessels<br>Dr. SEVGİLİ |
| 15:30-16:20          | FREE STUDY<br>TIME                             | Elective<br>Courses  | FREE STUDY<br>TIME                         | FREE STUDY<br>TIME                   | ECG<br>DR. GÜNEY  |
| 16:30-17:20          | FREE STUDY<br>TIME                             | Elective<br>Courses  | FREE STUDY<br>TIME                         | FREE STUDY<br>TIME                   | ECG<br>DR. GÜNEY  |

| 5 <sup>th</sup> week | 02.12.2024<br>MONDAY   | 03.12.2024<br>TUESDAY | 04.12.2024<br>WEDNESDAY                      | 05.12.2024<br>THURSDAY   | 06.12.2024<br>FRIDAY  |
|----------------------|--|-----------------------|--|--|---|
| 08:30-09:20          | FREE STUDY<br>TIME   | CSE                   | FREE STUDY<br>TIME                           | Physiology Lab (2)<br>(Group C)<br>Histology Lab (2)<br>(GroupA&B) | Anatomy Lab (3)<br>(GroupA&B)<br>Histology Lab (3)<br>(GroupC&D)  |
| 09:30-10:20          | Pressure in Circulation<br>System:Bernoulli Law,<br>Velocity and Flow in<br>internal frictional<br>flowing:Poiseulli law<br>Dr. SIRAV ARAL | CSE                   | FREE STUDY<br>TIME                           | Physiology Lab (2)<br>(Group C)<br>Histology Lab (2)<br>(GroupA&B) | Anatomy Lab (3)<br>(GroupA&B)<br>Histology Lab (3)<br>(GroupC&D)  |
| 10:30-11:20          | Pressure in Circulation<br>System:Bernoulli Law,<br>Velocity and Flow in<br>internal frictional<br>flowing:Poiseulli law<br>Dr. SIRAV ARAL | CSE                   | Principles of<br>hemodynamics<br>Dr. SEVGİLİ | Physiology Lab (2)<br>(Group A)<br>Histology Lab (2)<br>(GroupC&D) | Anatomy Lab (3)<br>(GroupC&D)<br>Histology Lab (3)<br>(GroupA&B)  |
| 11:30-12:20          | Security, Ethics and<br>Privacy in Health<br>Informatics:<br>Distributed Ledger<br>Technologies Dr.<br>KÜÇÜK BİÇER                         | CSE                   | Principles of<br>hemodynamics<br>Dr. SEVGİLİ | Physiology Lab (2)<br>(Group A)<br>Histology Lab (2)<br>(GroupC&D) | Anatomy Lab (3)<br>(GroupC&D)<br>Histology Lab (3)<br>(GroupA&B)) |
| 13:30-14:20          | T and B cells repertoir mechanisms Dr. BAĞRIAÇIK   | Medical<br>English    | Communication<br>Skills                      | The factors affecting blood pressure  Dr. SEVGILI                  | Conducting portion<br>of respiratory<br>system<br>Dr. ELMAS       |
| 14:30-15:20          | T and B cells<br>repertoir<br>mechanisms<br>Dr. BAĞRIAÇIK  | Medical<br>English    | Communication<br>Skills                      | The factors affecting blood pressure  Dr. SEVGILI                  | Conducting portion<br>of respiratory<br>system<br>Dr. ELMAS       |
| 15:30-16:20          | Medical Imaging<br>Techniques and<br>Applications<br>Dr. KÜÇÜK BİÇER   | Elective<br>Courses   | FREE STUDY<br>TIME                           | Nose Anatomy<br>Dr. ATALAR   | FREE STUDY<br>TIME  |
| 16:30-17:20          | FREE STUDY<br>TIME   | Elective<br>Courses   | FREE STUDY<br>TIME                           | Nose Anatomy<br>Dr. ATALAR   | FREE STUDY<br>TIME  |

|                      | 1  |   |                                    |                                    |  |
|----------------------|--|---|------------------------------------|------------------------------------|--|
| 6 <sup>th</sup> week | 09.12.2024<br>MONDAY   | 10.12.2024<br>TUESDAY   | 11.12.2024<br>WEDNESDAY            | 12.12.2024<br>THURSDAY             | 13.12.2024<br>FRIDAY                                       |
| 08:30-09:20          | Fetal and Pulmonary circulation  Dr. SEVGILI                       | Anatomy Lab (4)<br>(GroupA&B)<br>Histology Lab (4)<br>(GroupC&D)  | Physiology Lab<br>(2)<br>(Group D) | Physiology Lab<br>(3)<br>(Group A) | Trachea, lungs<br>and diaphragm<br>Dr. ATALAR              |
| 09:30-10:20          | Fetal and Pulmonary circulation Dr. SEVGILI                        | Anatomy Lab (4)<br>(GroupA&B)<br>Histology Lab (4)<br>(GroupC&D)  | Physiology Lab<br>(2)<br>(Group D) | Physiology Lab<br>(3)<br>(Group A) | Trachea, lungs<br>and diaphragm<br>Dr. ATALAR              |
| 10:30-11:20          | Larynx<br>Dr.<br>BAHÇELİOĞLU                                       | Anatomy Lab (4)<br>(GroupC&D)<br>Histology Lab (4)<br>(GroupA&B)  | Physiology Lab<br>(2)<br>(Group B) | Physiology Lab<br>(3)<br>(Group B) | Autoregulation and capillary dynamics  Dr. SEVGILI         |
| 11:30-12:20          | Larynx<br>Dr.<br>BAHÇELİOĞLU                                       | Anatomy Lab (4)<br>(GroupC&D)<br>Histology Lab (4)<br>(GroupA&B)) | Physiology Lab<br>(2)<br>(Group B) | Physiology Lab<br>(3)<br>(Group B) | Autoregulation<br>and capillary<br>dynamics<br>Dr. SEVGİLİ |
| 13:30-14:20          | Adhesion<br>molecules<br>structure and<br>function<br>Dr.BAĞRIAÇIK | Medical English   | Communication<br>Skills            | Physiology Lab<br>(3)<br>(Group C) | Cytokines Dr. ATAK YÜCEL                                   |
| 14:30-15:20          | FREE STUDY<br>TIME   | Medical English   | Communication<br>Skills            | Physiology Lab<br>(3)<br>(Group C) | Cytokines Dr. ATAK YÜCEL                                   |
| 15:30-16:20          | Communication<br>Skills  | Elective Courses  | FREE STUDY<br>TIME                 | Physiology Lab<br>(3)<br>(Group D) | FREE STUDY<br>TIME   |
| 16:30-17:20          | Communication<br>Skills  | Elective Courses  | FREE STUDY<br>TIME                 | Physiology Lab<br>(3)<br>(Group D) | FREE STUDY<br>TIME   |

| 7 <sup>th</sup> week | 16.12.2024<br>MONDAY  | 17.12.2024<br>TUESDAY  | 18.12.2024<br>WEDNESDAY   | 19.12.2024<br>THURSDAY  | 20.12.2024<br>FRIDAY   |
|----------------------|---|--|---|---|--|
| 08:30-09:20          | Coronary<br>circulation<br>Dr. SEVGILI                          | Anatomy Lab (5)<br>(GroupC&D)<br>Histology Lab (5)<br>(GroupA&B) | Mechanics of<br>breathing and<br>physical principles<br>Dr. SEVGILI | Diffusion of gases<br>through the<br>respiratory<br>membrane<br>Dr. SEVGILI | Training, changes in pressure-velocity and kinetic energy due to pathological cont of arteries  Dr. SIRAV ARAL |
| 09:30-10:20          | The functions of the respiratory system  Dr. SEVGILI            | Anatomy Lab (5)<br>(GroupC&D)<br>Histology Lab (5)<br>(GroupA&B) | Quantitative relations of respiration  Dr. SEVGILI                  | Hb-O <sub>2</sub> Binding<br>and Dissociation<br>Curve<br>Dr. SEVGİLİ       | Training, changes in pressure-velocity and kinetic energy due to pathological cont of arteries  Dr. SIRAV ARAL |
| 10:30-11:20          | Clinical and<br>Radiographic<br>Anatomy<br>Dr.<br>BAHÇELİOĞLU   | Anatomy Lab (5)<br>(GroupA&B)<br>Histology Lab (5)<br>(GroupC&D) | Clinical and Radiographic Anatomy Dr. BAHÇELİOĞLU                   | Complement<br>System<br>Dr. BAĞRIAÇIK                                       | Circulatory Shock<br>and Physiological<br>Mechanisms in<br>Some<br>Cardiovascular<br>Diseases<br>Dr. GÜNEY     |
| 11:30-12:20          | Clinical and Radiographic Anatomy Dr. BAHÇELİOĞLU               | Anatomy Lab (5)<br>(GroupA&B)<br>Histology Lab (5)<br>(GroupC&D) | Clinical and<br>Radiographic<br>Anatomy<br>Dr.<br>BAHÇELİOĞLU       | Complement<br>System<br>Dr. BAĞRIAÇIK                                       | Circulatory Shock<br>and Physiological<br>Mechanisms in<br>Some<br>Cardiovascular<br>Diseases<br>Dr. GÜNEY     |
| 13:30-14:20          | Respiratory<br>portion of<br>respiratory<br>system<br>Dr. ELMAS | Medical<br>English   | Communication<br>Skills   | Clinical and Radiographic Anatomy Dr. BAHÇELİOĞLU                           | Cellular and<br>Humoral Immune<br>Response<br>Dr. KARAKUŞ  |
| 14:30-15:20          | Respiratory portion of respiratory system Dr. ELMAS             | Medical<br>English   | Communication<br>Skills   | Respiratory System Embryology Dr. SEYMEN                                    | Cellular and Humoral Immune Response  Dr. KARAKUŞ  |
| 15:30-16:20          | Chemokines and their receptors Dr. ATAK YÜCEL                   | Elective<br>Courses  | FREE STUDY<br>TIME  | Respiratory System Embryology Dr. SEYMEN                                    | FREE STUDY<br>TIME   |
| 16:30-17:20          | FREE STUDY<br>TIME  | Elective<br>Courses  | FREE STUDY<br>TIME  | FREE STUDY<br>TIME  | FREE STUDY<br>TIME   |

| 8 <sup>th</sup> week | 23.12.2024<br>MONDAY               | 24.12.2024<br>TUESDAY   | 25.12.2024<br>WEDNESDAY   | 26.12.2024<br>THURSDAY   | 27.12.2024<br>FRIDAY   |
|----------------------|------------------------------------|---|---|--|--|
| 08:30-09:20          | Physiology Lab<br>(4)<br>(Group A) | Anatomy Lab (6)<br>(GroupA&B)<br>Histology Lab (6)<br>(GroupC&D)  | O <sub>2</sub> , CO <sub>2</sub> Transport<br>by the Blood<br>Dr. SEVGİLİ | FREE STUDY<br>TIME   | Physiology Lab<br>(Make Up)  |
| 09:30-10:20          | Physiology Lab<br>(4)<br>(Group A) | Anatomy Lab (6)<br>(GroupA&B)<br>Histology Lab (6)<br>(GroupC&D)  | Regulation of Respiration  Dr. SEVGİLİ                                    | Resp. system and its dynamic properties. Gas laws related with respiration, application of Poiseulle and Laplace Laws in respiratory system Dr. SIRAV ARAL | Physiology Lab<br>(Make Up)  |
| 10:30-11:20          | Physiology Lab<br>(4)<br>(Group B) | Anatomy Lab (6)<br>(GroupC&D)<br>Histology Lab (6)<br>(GroupA&B)) | Laplace law and autoregulation of pressure  Dr. SIRAV ARAL                | Resp. system and its dynamic properties. Gas laws related with respiration, application of Poiseulle and Laplace Laws in respiratory system Dr. SIRAV ARAL | Physiology Lab<br>(Make Up)  |
| 11:30-12:20          | Physiology Lab<br>(4)<br>(Group B) | Anatomy Lab (6)<br>(GroupC&D)<br>Histology Lab (6)<br>(GroupA&B)) | Laplace law and autoregulation of pressure  Dr. SIRAV ARAL                | Respiratory System Embryology Dr. SEYMEN   | Physiology Lab<br>(Make Up)  |
| 13:30-14:20          | Physiology Lab<br>(4)<br>(Group C) | Medical<br>English  | FREE STUDY<br>TIME  | Regulation of<br>Respiration<br>Dr. SEVGILI  | Surface Tension<br>and Alveolus<br>Mechanics<br>Compliance in<br>Lung and Breast<br>Dr. SIRAV ARAL |
| 14:30-15:20          | Physiology Lab<br>(4)<br>(Group C) | Medical<br>English  | FREE STUDY<br>TIME  | Respiratory System Under Stress Dr. SEVGILI  | Surface Tension<br>and Alveolus<br>Mechanics<br>Compliance in<br>Lung and Breast<br>Dr. SIRAV ARAL |
| 15:30-16:20          | Physiology Lab<br>(4)<br>(Group D) | Elective<br>Courses   | FREE STUDY<br>TIME  | FREE STUDY<br>TIME   | FREE STUDY<br>TIME   |
| 16:30-17:20          | Physiology Lab<br>(4)<br>(Group D) | Elective<br>Courses   | FREE STUDY<br>TIME  | FREE STUDY<br>TIME   | FREE STUDY<br>TIME   |

| 9 <sup>th</sup> week | 30.12.2024             | 31.12.2024             | 01.01.2025        | 02.01.2025             | 03.01.2025                    |
|----------------------|------------------------|------------------------|-------------------|------------------------|-------------------------------|
|                      | MONDAY                 | TUESDAY                | WEDNESDAY         | THURSDAY               | FRIDAY                        |
| 08:30-09:20          | YEAR 2                 | YEAR 2                 | PUBLIC            | YEAR 2                 | FREE STUDY                    |
|                      | APPLIED EXAM           | APPLIED EXAM           | HOLIDAY           | APPLIED EXAM           | TIME                          |
| 09:30-10:20          | YEAR 2<br>APPLIED EXAM | YEAR 2<br>APPLIED EXAM | PUBLIC<br>HOLIDAY | YEAR 2<br>APPLIED EXAM | YEAR 2<br>THEORETICAL<br>EXAM |
| 10:30-11:20          | YEAR 2<br>APPLIED EXAM | YEAR 2<br>APPLIED EXAM | PUBLIC<br>HOLIDAY | YEAR 2<br>APPLIED EXAM | YEAR 2<br>THEORETICAL<br>EXAM |
| 11:30-12:20          | YEAR 2<br>APPLIED EXAM | YEAR 2<br>APPLIED EXAM | PUBLIC<br>HOLIDAY | YEAR 2<br>APPLIED EXAM | YEAR 2<br>THEORETICAL<br>EXAM |
| 13:30-14:20          | YEAR 2<br>APPLIED EXAM | Medical<br>English     | PUBLIC<br>HOLIDAY | YEAR 2<br>APPLIED EXAM | YEAR 2<br>THEORETICAL<br>EXAM |
| 14:30-15:20          | YEAR 2                 | Medical                | PUBLIC            | YEAR 2                 | FREE STUDY                    |
|                      | APPLIED EXAM           | English                | HOLIDAY           | APPLIED EXAM           | TIME                          |
| 15:30-16:20          | YEAR 2                 | Elective               | PUBLIC            | YEAR 2                 | FREE STUDY                    |
|                      | APPLIED EXAM           | Courses                | HOLIDAY           | APPLIED EXAM           | TIME                          |
| 16:30-17:20          | YEAR 2                 | Elective               | PUBLIC            | YEAR 2                 | FREE STUDY                    |
|                      | APPLIED EXAM           | Courses                | HOLIDAY           | APPLIED EXAM           | TIME                          |