| Course Name | Code | Semester | Theory (hrs/week) | Application (hrs/week) | Laboratory (hrs/week) | ECTS |
|---|---|---|---|---|---|---|
| **Anatomy of the Circulatory System** | ANA625 | 1st, 2nd, 3rd and 4th Semester | 2 | 0 | 2 | 3 |

| | |
|---|---|
| Prerequisites | No |
| Course language | Turkish |
| Course Type | Optional |
| Learning and teaching techniques of the course | Lecture, Question-Answer, Practice - Exercise |
| Course instructor(s) | Prof. Dr. Salih Murat Akkın, Prof. Dr. Özdemir Sevinç |
| Course objectives | Learning general and specific information about the circulatory system, defining the structure, functions and neighborhoods of the organs of the circulatory system. |
| Learning outcomes of the course | 1- Knows the anatomy of the heart and pericardium and the anatomy of the vessels and nerves of the heart.<br>2- Have general and specific knowledge about the arterial and venous system.<br>3- Have knowledge about the anatomical features of large lymphatic vessels and lymphatic organs. |
| Resources | 1- Kaplan Arıncı, Alaittin Elhan. Anatomy, 2. Cilt, Güneş Bookstore, Ankara, 2020.<br>2- Figen Gövsa Gökmen. Systematic Anatomy. İzmir Güven Bookstore, Izmir, 2017.<br>3- Anne M.R. Agur, Arthur F. Dalley. Moore's Basic Clinical Anatomy. İsmail Nadir Gülekon, Tuncay Veysel Peker (Trans. Ed.). Nobel Medical Bookstores, Ankara, 2020.<br>4- Johannes W. Rohen, Chihiro Yokochi, Elke Lütjen-Drecoll. Human Anatomy Photo Dissection Atlas. Salih Murat Akkın (Trans. Ed.). Deomed, Istanbul, 2009.<br>5- Urban & Fischer F. Paulsen, J. Waschke. Sobotta Atlas of Human Anatomy. Süleyman Tuna Karahan (Trans. Ed.). Medipres Publishing, Malatya, 2019.<br>6- Michael Schünke, Erik Schulte, Udo Schumacher, Markus Voll, Karl Wesker. Prometheus Anatomical Atlas, 2. Skin (Internal Organs). Mehmet Yıldırım, Tanya Marur (Trans. Ed.), Palme Publishing House, Istanbul, 2021.<br>7- Susan Standring. Grays's Anatomy. The Anatomical Basis of Clinical Practice. 41th ed. Philadelphia, PA: Elsevier; 2015. |

**Weekly Course Topics:**

| WEEKS | TOPICS TO BE DISCUSSED |
|---|---|
| 1. Week | Introduction to the circulatory system |
| 2. Week | Heart cavities and valves |
| 3. Week | Wall structure of the heart and pericardium |
| 4. Week | Conduction system of the heart |
| 5. Week | Arteries, veins and innervation of the heart |
| 6. Week | Parts and main branches of the aorta, Truncus pulmonalis and pulmonary circulation |
| 7. Week | Head and neck arteries and veins |
| 8. Week | **MIDTERM EXAM** |
| 9. Week | Arteries and veins of the upper extremities |
| 10. Week | Arteries and veins of the lower extremities |

| | |
|---|---|
| 11. Week | Arteries and veins of the abdomen and pelvis |
| 12. Week | Portal circulation, porto-caval and cava-caval anastomoses |
| 13. Week | Fetal circulation |
| 14. Week | Lymphatic system |
| 15. Week | **FİNAL SINAVI** |

**Student Workload Table**

| **Events** | Number | Time | Total Workload |
|---|---|---|---|
| Lesson | 14 | 2 | 28 |
| Laboratory | 14 | 2 | 28 |
| Application | | | |
| Fieldwork | | | |
| Out-of-Class Study Time (Freelancing/Group Work/Pre-Study) | 14 | 1 | 14 |
| Presentation (Shooting videos/Preparing posters/Making Oral Presentations/Focus Group Interviews/Conducting Surveys/Observation and Report Writing) | | | |
| Seminar Preparation | | | |
| Project | | | |
| Case Study | | | |
| Role Playing, Dramatizing | | | |
| Writing an article-Criticizing | | | |
| Mid-term exams | 1 | 2 | 2 |
| Final exams | 1 | 3 | 3 |
| **Total workload (hours) / 25(s)** | 75/25 | | |
| **Ders ACT** | **3** | | |

**Evaluation System**

| **Semester Studies** | **Number** | **Contribution** |
|---|---|---|
| Midterm Exam | 1 | %20 |
| Quiz | | |
| Laboratory | 1 | %20 |
| Application | | |
| Fieldwork | | |
| Course-Specific Internship (If Available) | | |
| Assignments | | |
| Presentation and Seminar | | |
| Projects | | |
| Other | | |
| **Total of Semester Studies** | | %40 |
| **Final Work** | | |
| Finale | 1 | %60 |
| Homework | | |

| | | |
|---|---|---|
| Application | | |
| Laboratory | | |
| **Total of Final Studies** | | %60 |
| The Contribution of Semester Studies to the Success Grade | | %40 |
| The Contribution of the Final Exam to the Success Grade | | %60 |
| **Sum of Success Grade** | | **100** |

**THE RELATIONSHIP BETWEEN COURSE LEARNING OUTCOMES AND PROGRAM COMPETENCIES**

| **No** | **Program Qualifications** | **Learning Outcomes** | | |
|---|---|---|---|---|
| | | **ÖÇ1** | **ÖÇ2** | **ÖÇ3** |
| 1 | Knows the basic structure, functions and working mechanisms of organs and systems and can explain each system in detail. | 5 | 5 | 5 |
| 2 | Describe the basic microanatomical structures and developmental processes of tissues, organs and systems in the human body. | | | |
| 3 | Knows the topographic layouts, surface projections and courses of organs and formations. | 5 | 5 | 3 |
| 4 | It alone can dissect different parts of cadavers, identify organs and other structures. | 4 | 4 | |
| 5 | Radiography can describe normal anatomical structures in MRI and CT images and provide anatomical explanation for pathological conditions. | | | |
| 6 | Can establish, solve and develop hypotheses about anatomy by using anatomy knowledge at a high level. | | | |
| 7 | Can design, implement, conclude and manage an original research process related to anatomy by using appropriate technologies. | | | |
| 8 | Present and publish the results of academic studies in the field of anatomy in reputable domestic and international academic environments. | | | |
| 9 | Observes and teaches social, scientific and ethical values in the stages of collecting, recording, interpreting and announcing data related to the field of anatomy. | | | |
| **Qualification level: 1: Low, 2: Low/Medium, 3: Medium, 4: High, 5: Excellent** | | | | |