Courses – ECTS Credits **ANATOMİ/YÜKSEK LİSANS**

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| **First Year** |
| Code | Course Name | ECTS | T+P+L | C/E | Language |
| Fall Semester |
| [521203202](#DERS521203202) | [GROSS ANATOMY I](#DERS521201202) | 7,5 | 2+2+0 | ELECTİVE | TURKISH |
| [521203206](#DERS521203206) | [ANATOMY OF THE RESPIRATORY AND CARDIOVASCULAR SYSTEM](#DERS521201206) | 7,5 | 2+2+0 | ELECTİVE | TURKISH |
| [521205209](#DERS521205209) | [HISTORY OF ANATOMY](#DERS521201209) | 5 | 2+0+0 | ELECTİVE | TURKISH |
| [521203210](#DERS521203210) | [ANATOMY OF THE DIGESTIVE SYSTEM](#DERS521201210) | 7,5 | 2+2+0 | ELECTİVE | TURKISH |
| [521205211](#DERS521205211) | [OSTEOLOGY](#DERS521201211) | 5 | 2+1+0 | ELECTİVE | TURKISH |
| [521205212](#DERS521205212) | [ARTHROLOGY](#DERS521201212) | 7,5 | 2+1+0 | ELECTİVE | TURKISH |
| [521203213](#DERS521203213) | [TOPOGRAPHIC ANATOMY OF THE TRUNK](#DERS521201213) | 7,5 | 3+2+0 | ELECTİVE | TURKISH |
| [521203214](#DERS521203214) | [ANATOMY OF THE UPPER AND LOWER EXTREMITIES](#DERS521201214) | 7,5 | 2+2+0 | COMPULSORY | TURKISH |
| [521203215](#DERS521203215) | [MEDICAL TERMINOLOGY AND BASIC CONCEPTS IN MEDICINE](#DERS521201215) | 7,5 | 3+0+0 | COMPULSORY | TURKISH |
| 521203400 | SEMİNAR | 7,5 | 0+1+0 | COMPULSORY | TURKISH |
| 521201700 | SPECIALIZATION FIELD COURSE | 5 | 3+0+0 | COMPULSORY | TURKISH |
| 521201200 | MASTER'S THESIS | 25 | 0+1+0 | COMPULSORY | TURKISH |
| 520111103 | RESEARCH METHODS AND PUBLISHING ETHICS\* | 7,5 | 3+0+3 | COMPULSORY | TURKISH |
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| Spring Semester |
| [521204201](#DERS521204201) | [GROSS ANATOMY II](#DERS521202201) | 7,5 | 2+2+0 | ELECTİVE | TURKISH |
| [521204202](#DERS521204202) | [BASIC PRINCIPLES IN NEUROSCIENCE](#DERS521202202) | 7,5 | 2+2+0 | ELECTİVE | TURKISH |
| [521206203](#DERS521206203) | [ANATOMY OF THE SPECIAL SENSE ORGANS](#DERS521202203) | 2,5 | 1+1+0 | ELECTİVE | TURKISH |
| [521204206](#DERS521204206) | [ANATOMY OF THE UROGENITAL SYSTEM](#DERS521202206) | 7,5 | 2+2+0 | ELECTİVE | TURKISH |
| [521206207](#DERS521206207) | [MODEL BASED STUDIES IN ANATOMY](#DERS521202207) | 5 | 1+2+0 | ELECTİVE | TURKISH |
| [521204208](#DERS521204208) | [CADAVER DISSECTION](#DERS521202208) | 7,5 | 2+2+0 | ELECTİVE | TURKISH |
| [521204209](#DERS521204209) | [MORPHOMETRIC METHODS](#DERS521202209) | 7,5 | 2+2+0 | ELECTİVE | TURKISH |
| [521204210](#DERS521204210) | [ANATOMY OF THE NERVOUS SYSTEM](#DERS521202210) | 7,5 | 3+2+0 | ELECTİVE | TURKISH |
| [521204211](#DERS521204211) | [MICROSURGERY IN ANATOMY](#DERS521202211) | 7,5 | 2+3+0 | ELECTİVE | TURKISH |
| [521206212](#DERS521206212) | [MYOLOGY](#DERS521202212) | 5 | 2+1+0 | ELECTİVE | TURKISH |
| [521204213](#DERS521204213) | [ANATOMY OF THE PERIPHERAL CIRCULATORY SYSTEM](#DERS521202213) | 7,5 | 2+2+0 | ELECTİVE | TURKISH |
| [521206214](#DERS521206214) | [ANATOMY OF THE ENDOCRINE SYSTEM](#DERS521202214) | 5 | 2+1+0 | ELECTİVE | TURKISH |
| [521204215](#DERS521204215) | [ANATOMY OF THE HEAD AND NECK](#DERS521202215) | 7,5 | 2+2+0 | COMPULSORY | TURKISH |
| 521203400 | SEMİNAR | 7,5 | 0+1+0 | COMPULSORY | TURKISH |
| 521201700 | SPECIALIZATION FIELD COURSE\* | 5 | 3+0+0 | COMPULSORY | TURKISH |
| 521201200 | MASTER'S THESIS\* | 25 | 0+1+0 | COMPULSORY | TURKISH |
| 520111103 | RESEARCH METHODS AND PUBLISHING ETHICS\* | 7,5 | 3+0+3 | COMPULSORY | TURKISH |
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| **COURSE CODE:** | **521203202** | **DEPARTMENT: ANATOMY** |
| **COURSE NAME:** |  | GROSS ANATOMY I |
| **INSTRUCTOR NAME**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY | **COURSE LANGUAGE****Turkish:** 🗵**English:** □ | **Course Catagory** |
| Technical | Medical | Other(……) |
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**COURSE LEVEL**

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| **PROPAEDEUTIC** | **M.Sc.** | **Ph.D.** | **COURSE of PROVINCE** |
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| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE of** |
| **Theoric** | **Practice** | **Laboratory** | **Credit** | **ECTS** | **TYPE** |
| Spring □Autumn 🗵 | 2 | 2 | - | 3 | 7,5 | COMPULSORY ELECTIVE□🗵 |
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| **ASSESMENT CRITERIA** |
| **MID-TERM** | **ACTIVITY** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term | **1** | **50**  |
| 2 nd Mid- Term |   |   |
| Quiz |  |   |
| Homework |   |   |
| Project |   |   |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL** | Quiz | **1** | **50** |
| Homework |  |  |
| Project |  |  |
| Oral Exam |  |  |
| Other(……………….) |  |  |
| **MAKE-UP EXAM** | Oral | Written | Oral and Written | Multiple Choice |
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| **PREREQUISITE(S)** | - |
| **COURSE CONTENT** | In this course, it is given briefly the basic anatomic knowledge about the locomotor system, nervous system and sense organs. |
| **COURSE AIMS** | Give the anatomical information about the locomotor system, nervous system and sense organs and make clear the functional importance. |
| **COURSE OBJECTIVES** | Determination of anatomic points of the locomotor system, nervous system and sense organs and its place on human body system, understanding of the functional importance, the ability to provide the clinical integration (relations) of the systems. |
| **TEXTBOOK(S)** | -Arıncı, K, Elhan, A: Anatomi, Cilt 1-2, 2. Baskı, Güneş Kitabevi, Ankara, 1997.-Langman Jan: Medizinische Embryologie, Band: 1-3, Georg Thieme Verlag, Stuttgart-New York.-Moore, KL: Clinically Oriented Anatomy. 3th Edition, Williams and Wilkins, Baltimore, 1992.-Williams P.L.: Gray’s Anatomy, 38.edition, ELBS with Churchill Livingstone, Great Britain, 1995. |
| **REFERENCES** | -Netter F.H.:Atlas of Human Anatomy, Seventh Edition, Ciba-Geigy Corporation, 1994. -Putz R, Pabst R.: Sobotta İnsan Anatomisi (çeviri: K.Arıncı), Beta Basım Yayın Dağıtım A.Ş., İstanbul, 1993. |

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|  |  **COURSE SYLLABUS** |
| **WEEK** | **SUBJECTS/TOPICS** |
| 1 | Introduction to human anatomy, terminology, general information about skeleton, joints and muscles |
| 2 | The bones of the upper and lower limbs, Vertebral column, ribs, sternum, individual cranial bones |
| 3 | The joints of the upper and lower limbs, General features of skull, the joints of vertebral column and thorax |
| 4 | Muscles of the head and neck, Muscles of the back, muscles of the thorax and diaphragm, Abdominal muscles, Muscles of the pelvis and perineum |
| 5 | Muscles of the upper and lower limbs |
| 6 | Introduction to central nervous system, neurons and their types, organization of senses, features of sensory receptors, classification of receptors |
| 7 | Spinal cord, bulbus, pons, cerebellum, mesencephalon |
| 8 | MIDTERM EXAM |
| 9 | Diencephalon, Rhinencephalon, limbic lobe and olfactory pathways, basal nuclei and extrapyramidal system |
| 10 | Telencephalon, the main cortical areas, ventricular system, meninges of the brain, cranial vessels |
| 11 | The periferic nervous system |
| 12 | The cranial nerves |
| 13 | The spinal nerves |
| 14 | The autonomic nervous system |
| 15 | The sensory system |
| 16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **1** | **2** | **3** |
| 1 | gather as well as apply knowledge of health sciences |  |  | **🗴** |
| 2 | ask scientific questions and form hypothesis |  |  | **🗴** |
| 3 | search and interpret scientific literature |  |  | **🗴** |
| 4 | design and conduct experiments as well as analyze and interpret the data |  | **🗴**  |  |
| 5 | learn how to use the experimental equipment effectively | **🗴** |  |  |
| 6 | function on multi-disciplinary teams |  |  | **🗴** |
| 7 | identify, formulate, and solve medical problems |  | **🗴**  |  |
| 8 | use computer effectively both in conducting the experiments and analyzing the data | **🗴** |  |  |
| 9 | understand the impact of experimental solutions on national and international sciences |  |  | **🗴** |
| 10 | use effective written and oral communication/presentation skills |  | **🗴**  |  |
| 11 | get an understanding of professional and ethical responsibility |  | **🗴** |  |
| 12 | get a recognition of the need for, and an ability to engage in lifelong learning |  |  | **🗴** |
| 13 | other (……………………………………….)  |  |  |  |
| 14 | other (……………………………………….) |  |  |  |

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| **Instructor Name:**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY | **Sign:****Date** |

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| **COURSE CODE:** | **521203206** | **DEPARTMENT: ANATOMY** |
| **COURSE NAME:** | ANATOMY OF THE RESPIRATORY AND CARDIOVASCULAR SYSTEM |
| **INSTRUCTOR NAME**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Assos.Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY | **COURSE LANGUAGE****Turkish:** 🗵**English:** □ | **Course Catagory** |
| Technical | Medical | Other(……) |
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**COURSE LEVEL**

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| **PROPAEDEUTIC** | **M.Sc.** | **Ph.D.** | **COURSE of PROVINCE** |
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| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE of** |
| **Theoric** | **Practice** | **Laboratory** | **Credit** | **ECTS** | **TYPE** |
| Spring □Autumn 🗵 | 2 | 2 | - | 3 | 7,5 | COMPULSORY ELECTIVE□🗵 |
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| **ASSESMENT CRITERIA** |
| **MID-TERM** | **ACTIVITY** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term | **1** | **50**  |
| 2 nd Mid- Term |   |   |
| Quiz |  |   |
| Homework |   |   |
| Project |   |   |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL** | Quiz | **1** | **50** |
| Homework |  |  |
| Project |  |  |
| Oral Exam |  |  |
| Other(……………….) |  |  |
| **MAKE-UP EXAM** | Oral | Written | Oral and Written | Multiple Choice |
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| **PREREQUISITE(S)** |  |
| **COURSE CONTENT** | In this course, it is given basic anatomic knowledge about the development of the respiratory and cardiovascular system, fetal circulation, structure of the heart, arterial, venous and lymphatic circulation thorax and respiratory organs. |
| **COURSE AIMS** | Give the anatomical information about respiratory and cardiovascular system and make clear the functional importance. |
| **COURSE OBJECTIVES** | Determination of anatomic points of the related system and its place on human body system, understanding of the functional importance, the ability to provide the clinical integration (relations) of the systems. |
| **TEXTBOOK(S)** | -Arıncı, K, Elhan, A: Anatomi, Cilt 1-2, 2. Baskı, Güneş Kitabevi, Ankara, 1997.-Langman Jan: Medizinische Embryologie, Band: 1-3, Georg Thieme Verlag, Stuttgart-New York.-Moore, KL: Clinically Oriented Anatomy. 3th Edition, Williams and Wilkins, Baltimore, 1992.-Williams P.L.: Gray’s Anatomy, 38.edition, ELBS with Churchill Livingstone, Great Britain, 1995. |
| **REFERENCES** | -Netter F.H.:Atlas of Human Anatomy, Seventh Edition, Ciba-Geigy Corporation, 1994. -Putz R, Pabst R.: Sobotta İnsan Anatomisi (çeviri: K.Arıncı), Beta Basım Yayın Dağıtım A.Ş., İstanbul, 1993. |

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|  |  **COURSE SYLLABUS** |
| **WEEK** | **SUBJECTS/TOPICS** |
| 1 | Development of the heart, fetal circulation |
| 2 | Cardiac surfaces, cardiac chambers |
| 3 | Localisation of the heart, pericardium |
| 4 | Vessels and nerve supply of the heart |
| 5 | Conduction system of the heart |
| 6 | Arterial and venous circulation |
| 7 | Aorta, pulmonary trunk and their branches  |
| 8 | MIDTERM EXAM |
| 9 | Lymphatic circulation |
| 10 | Development of the respiratory system  |
| 11 | Nose and paranasal sinuses |
| 12 | Larynx |
| 13 | Trachea and bronchi |
| 14 | Lungs |
| 15 | Cavitas thoracis, pleurae and mediastinum |
| 16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **1** | **2** | **3** |
| 1 | gather as well as apply knowledge of health sciences |  |  | **🗴** |
| 2 | ask scientific questions and form hypothesis |  |  | **🗴** |
| 3 | search and interpret scientific literature |  |  | **🗴** |
| 4 | design and conduct experiments as well as analyze and interpret the data |  | **🗴**  |  |
| 5 | learn how to use the experimental equipment effectively | **🗴** |  |  |
| 6 | function on multi-disciplinary teams |  |  | **🗴** |
| 7 | identify, formulate, and solve medical problems |  | **🗴**  |  |
| 8 | use computer effectively both in conducting the experiments and analyzing the data | **🗴** |  |  |
| 9 | understand the impact of experimental solutions on national and international sciences |  |  | **🗴** |
| 10 | use effective written and oral communication/presentation skills |  | **🗴**  |  |
| 11 | get an understanding of professional and ethical responsibility |  | **🗴** |  |
| 12 | get a recognition of the need for, and an ability to engage in lifelong learning |  |  | **🗴** |
| 13 | other (……………………………………….)  |  |  |  |
| 14 | other (……………………………………….) |  |  |  |

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| **Instructor Name:**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY | **Sign:****Date** |

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| **COURSE CODE:** | **521205209** | **DEPARTMENT: ANATOMY** |
| **COURSE NAME:** | HISTORY OF ANATOMY |  |
| **INSTRUCTOR NAME** | **COURSE LANGUAGE****Turkish:** 🗵**English:** □ | **Course Catagory** |
| Technical | Medical | Other(……) |
| Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY |  |  | **🗴** |  |

**COURSE LEVEL**

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| **PROPAEDEUTIC** | **M.Sc.** | **Ph.D.** | **COURSE of PROVINCE** |
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| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE of** |
| **Theoric** | **Practice** | **Laboratory** | **Credit** | **ECTS** | **TYPE** |
| Spring □Autumn 🗵 | 2  | -  | - | 2  | 5 | COMPULSORY ELECTIVE□🗵 |
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| **ASSESMENT CRITERIA** |
| **MID-TERM** | **ACTIVITY** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term | **1** | **50**  |
| 2 nd Mid- Term |   |   |
| Quiz |  |   |
| Homework |   |   |
| Project |   |   |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL** | Quiz | **1** | **50** |
| Homework |  |  |
| Project |  |  |
| Oral Exam |  |  |
| Other(……………….) |  |  |
| **MAKE-UP EXAM** | Oral | Written | Oral and Written | Multiple Choice |
|  |  | 🗴 |  |
| **PREREQUISITE(S)** |  |
| **COURSE CONTENT** | Nowadays, very important improvements and developments are seen in all scientific areas and their relationships with historical endeavors are investigated intensely. The members of the anatomical science needs to know the historical efforts and studies in their field. In addition, they have to be able to connect the past and future studies.  |
| **COURSE AIMS** | At the end of this course, students will be able to learn the development of anatomical science in a historical order. |
| **COURSE OBJECTIVES** | In this course, the history of the anatomical sciences will be given systematically from the beginning ages of the medicine. The principles of the anatomy which is one of the major basic sciences of the medicine will be given. Another aim of this course is to build a close relationship between basic and clinical science departments. |
| **TEXTBOOK(S)** | Wolfgang U. Eckart : Geschichte der Medizin. Sipringer-Verlag, BerlinErwin H. Ackerknecht- A.h. Murken : Geschichte der Medizin. Ferdinad Enke Verlag-Stuttgart |
| **REFERENCES** |  |

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|  |  **COURSE SYLLABUS** |
| **WEEK** | **SUBJECTS/TOPICS** |
| 1 | Previous anatomical findings in the public medicine  |
| 2 | Medicine and anatomy in different cultures |
| 3 | Medicine and anatomical studies in ancient civilized cultures  |
| 4 | Anatomy during Roman and Greek civilization |
| 5 | Anatomy at Byzantine medicine |
| 6 | Anatomy during middle age period |
| 7 | Anatomy during Renascence period. |
| 8 | MID-TERM EXAM |
| 9 | Anatomy during XVIIth-XVIIIth century |
| 10 | Anatomy during XIXth-XXth century |
| 11 | Great anatomists in anatomical science |
| 12 | Anatomy in Ottoman-Turkish medicine |
| 13 | Systematic of the anatomical history |
| 14 | Discussion over recent papers |
| 15 | Discussion over recent papers |
| 16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **1** | **2** | **3** |
| 1 | gather as well as apply knowledge of health sciences |  |  | **🗴** |
| 2 | ask scientific questions and form hypothesis |  |  | **🗴** |
| 3 | search and interpret scientific literature |  |  | **🗴** |
| 4 | design and conduct experiments as well as analyze and interpret the data |  | **🗴**  |  |
| 5 | learn how to use the experimental equipment effectively | **🗴** |  |  |
| 6 | function on multi-disciplinary teams |  |  | **🗴** |
| 7 | identify, formulate, and solve medical problems |  | **🗴**  |  |
| 8 | use computer effectively both in conducting the experiments and analyzing the data | **🗴** |  |  |
| 9 | understand the impact of experimental solutions on national and international sciences |  |  | **🗴** |
| 10 | use effective written and oral communication/presentation skills |  | **🗴**  |  |
| 11 | get an understanding of professional and ethical responsibility |  | **🗴** |  |
| 12 | get a recognition of the need for, and an ability to engage in lifelong learning |  |  | **🗴** |
| 13 | other (……………………………………….)  |  |  |  |
| 14 | other (……………………………………….) |  |  |  |

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| **Instructor Name:**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY | **Sign:****Date** |

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| **COURSE CODE:** | **521203210** | **DEPARTMENT: ANATOMY** |
| **COURSE NAME:** | ANATOMY OF THE DIGESTIVE SYSTEM |
| **INSTRUCTOR NAME**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY | **COURSE LANGUAGE****Turkish:** 🗵**English:** □ | **Course Catagory** |
| Technical | Medical | Other(……) |
|  |  | **🗴** |  |

**COURSE LEVEL**

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| **PROPAEDEUTIC** | **M.Sc.** | **Ph.D.** | **COURSE of PROVINCE** |
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| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE of** |
| **Theoric** | **Practice** | **Laboratory** | **Credit** | **ECTS** | **TYPE** |
| Spring □Autumn 🗵 | 2 | 2 | - | 3 | 7,5 | COMPULSORY ELECTIVE□🗵 |
|  |
| **ASSESMENT CRITERIA** |
| **MID-TERM** | **ACTIVITY** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term | **1** | **50**  |
| 2 nd Mid- Term |   |   |
| Quiz |  |   |
| Homework |   |   |
| Project |   |   |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL** | Quiz | **1** | **50** |
| Homework |  |  |
| Project |  |  |
| Oral Exam |  |  |
| Other(……………….) |  |  |
| **MAKE-UP EXAM** | Oral | Written | Oral and Written | Multiple Choice |
|  |  | 🗴 |  |
| **PREREQUISITE(S)** | - |
| **COURSE CONTENT** | In this course, it is given the basic anatomic knowledge about the development and mechanism of digestive system, oral cavity, pharynx, oesophagus, stomach, small and large intestine, peritoneum and digestive glands |
| **COURSE AIMS** | Give the anatomical information about the digestive system and make clear the functional importance |
| **COURSE OBJECTIVES** | Determination of anatomic points of the related system and its place on human body system, understanding of the functional importance, the ability to provide the clinical integration (relations) of the system |
| **TEXTBOOK(S)** | -Arıncı, K, Elhan, A: Anatomi, Cilt 1-2, 2. Baskı, Güneş Kitabevi, Ankara, 1997.-Langman Jan: Medizinische Embryologie, Band: 1-3, Georg Thieme Verlag, Stuttgart-New York.-Moore, KL: Clinically Oriented Anatomy. 3th Edition, Williams and Wilkins, Baltimore, 1992.-Williams P.L.: Gray’s Anatomy, 38.edition, ELBS with Churchill Livingstone, Great Britain, 1995. |
| **REFERENCES** | -Netter F.H.:Atlas of Human Anatomy, Seventh Edition, Ciba-Geigy Corporation, 1994. -Putz R, Pabst R.: Sobotta İnsan Anatomisi (çeviri: K.Arıncı), Beta Basım Yayın Dağıtım A.Ş., İstanbul, 1993. |
|  |  **COURSE SYLLABUS** |
| **WEEK** | **SUBJECTS/TOPICS** |
| 1 | Development of the digestive system |
| 2 | Oral cavity and related structures, fauces |
| 3 | Salivary glands |
| 4 | Pharynx |
| 5 | Oesophagus |
| 6 | Stomach |
| 7 | Small intestine |
| 8 | MIDTERM EXAM  |
| 9 | Large intestine |
| 10 | Liver |
| 11 | Biliary ducts and gallbladder |
| 12 | Pancreas |
| 13 | Spleen |
| 14 | Peritoneum |
| 15 | Abdominal regions, localizations of abdominal organs |
| 16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **1** | **2** | **3** |
| 1 | gather as well as apply knowledge of health sciences |  |  | **🗴** |
| 2 | ask scientific questions and form hypothesis |  |  | **🗴** |
| 3 | search and interpret scientific literature |  |  | **🗴** |
| 4 | design and conduct experiments as well as analyze and interpret the data |  | **🗴**  |  |
| 5 | learn how to use the experimental equipment effectively |  | **🗴** |  |
| 6 | function on multi-disciplinary teams |  |  | **🗴** |
| 7 | identify, formulate, and solve medical problems |  |  | **🗴**  |
| 8 | use computer effectively both in conducting the experiments and analyzing the data | **🗴** |  |  |
| 9 | understand the impact of experimental solutions on national and international sciences |  | **🗴** |  |
| 10 | use effective written and oral communication/presentation skills |  | **🗴**  |  |
| 11 | get an understanding of professional and ethical responsibility |  | **🗴** |  |
| 12 | get a recognition of the need for, and an ability to engage in lifelong learning |  |  | **🗴** |
| 13 | other (……………………………………….)  |  |  |  |
| 14 | other (……………………………………….) |  |  |  |

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| **Instructor Name:**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY | **Sign:****Date** |

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| **COURSE CODE:** | **521205211** | **DEPARTMENT: ANATOMY** |
| **COURSE NAME:** | OSTEOLOGY |
| **INSTRUCTOR NAME**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY | **COURSE LANGUAGE****Turkish:** 🗵**English:** □ | **Course Catagory** |
| Technical | Medical | Other(……) |
|  |  | **🗴** |  |

**COURSE LEVEL**

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| **PROPAEDEUTIC** | **M.Sc.** | **Ph.D.** | **COURSE of PROVINCE** |
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| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE of** |
| **Theoric** | **Practice** | **Laboratory** | **Credit** | **ECTS** | **TYPE** |
| Spring □Autumn 🗵 | 2 | 1 | - | 2,5 | 5 | COMPULSORY ELECTIVE□🗵 |
|  |
| **ASSESMENT CRITERIA** |
| **MID-TERM** | **ACTIVITY** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term | **1** | **50**  |
| 2 nd Mid- Term |   |   |
| Quiz |  |   |
| Homework |   |   |
| Project |   |   |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL** | Quiz | **1** | **50** |
| Homework |  |  |
| Project |  |  |
| Oral Exam |  |  |
| Other(……………….) |  |  |
| **MAKE-UP EXAM** | Oral | Written | Oral and Written | Multiple Choice |
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| **PREREQUISITE(S)** | - |
| **COURSE CONTENT** | Information about bones on human body, their structures, localizations, and bones that articulate with them. |
| **COURSE AIMS** | Give knowledge and provide the understanding of bones on human body, their structures, localizations, and bones that articulate with them. |
| **COURSE OBJECTIVES** | Get the knowledge about bones on human body, their structures, localizations, Determination of the place of the structure on human body, understanding of the functional importance and the ability to provide its clinical integration. |
| **TEXTBOOK(S)** | -Arıncı, K, Elhan, A: Anatomi, Cilt 1-2, 2. Baskı, Güneş Kitabevi, Ankara, 1997.-Langman Jan: Medizinische Embryologie, Band: 1-3, Georg Thieme Verlag, Stuttgart-New York.-Moore, KL: Clinically Oriented Anatomy. 3th Edition, Williams and Wilkins, Baltimore, 1992.-Williams P.L.: Gray’s Anatomy, 38.edition, ELBS with Churchill Livingstone, Great Britain, 1995. |
| **REFERENCES** | -Netter F.H.:Atlas of Human Anatomy, Seventh Edition, Ciba-Geigy Corporation, 1994. -Putz R, Pabst R.: Sobotta İnsan Anatomisi (çeviri: K.Arıncı), Beta Basım Yayın Dağıtım A.Ş., İstanbul, 1993. |

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|  |  **COURSE SYLLABUS** |
| **WEEK** | **SUBJECTS/TOPICS** |
| 1 | Introduction to Anatomy and Terminology |
| 2 | General information about bones |
| 3 | Shoulder girdle  |
| 4 | Bones of upper extremity I |
| 5 | Bones of upper extremity II |
| 6 | Pelvic girdle |
| 7 | Bones of lower extremity I |
| 8 | Bones of lower extremity II  |
| 9 | MID-TERM EXAM |
| 10 | Skeletal Pelvis  |
| 11 | Axial skeleton  |
| 12 | Cranium |
| 13 | General features of skull as a whole |
| 14 | Vertebral column  |
| 15 | Thorasic bones |
| 16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **1** | **2** | **3** |
| 1 | gather as well as apply knowledge of health sciences |  |  | **🗴** |
| 2 | ask scientific questions and form hypothesis |  |  | **🗴** |
| 3 | search and interpret scientific literature |  |  | **🗴** |
| 4 | design and conduct experiments as well as analyze and interpret the data |  | **🗴**  |  |
| 5 | learn how to use the experimental equipment effectively |  | **🗴** |  |
| 6 | function on multi-disciplinary teams |  |  | **🗴** |
| 7 | identify, formulate, and solve medical problems |  |  | **🗴**  |
| 8 | use computer effectively both in conducting the experiments and analyzing the data | **🗴** |  |  |
| 9 | understand the impact of experimental solutions on national and international sciences |  | **🗴** |  |
| 10 | use effective written and oral communication/presentation skills |  | **🗴**  |  |
| 11 | get an understanding of professional and ethical responsibility |  | **🗴** |  |
| 12 | get a recognition of the need for, and an ability to engage in lifelong learning |  |  | **🗴** |
| 13 | other (……………………………………….)  |  |  |  |
| 14 | other (……………………………………….) |  |  |  |

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| **Instructor Name:**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY | **Sign:****Date** |

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| **COURSE CODE:** | **521205212** | **DEPARTMENT: ANATOMY** |
| **COURSE NAME:** | ARTHROLOGY |
| **INSTRUCTOR NAME**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY | **COURSE LANGUAGE****Turkish:** 🗵**English:** □ | **Course Catagory** |
| Technical | Medical | Other(……) |
|  |  | **🗴** |  |

**COURSE LEVEL**

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| **PROPAEDEUTIC** | **M.Sc.** | **Ph.D.** | **COURSE of PROVINCE** |
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| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE of** |
| **Theoric** | **Practice** | **Laboratory** | **Credit** | **ECTS** | **TYPE** |
| Spring □Autumn 🗵 | 2 | 1 | - | 2,5 | 5 | COMPULSORY ELECTIVE□🗵 |
|  |
| **ASSESMENT CRITERIA** |
| **MID-TERM** | **ACTIVITY** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term | **1** | **50**  |
| 2 nd Mid- Term |   |   |
| Quiz |  |   |
| Homework |   |   |
| Project |   |   |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL** | Quiz | **1** | **50** |
| Homework |  |  |
| Project |  |  |
| Oral Exam |  |  |
| Other(……………….) |  |  |
| **MAKE-UP EXAM** | Oral | Written | Oral and Written | Multiple Choice |
|  |  | 🗴 |  |
| **PREREQUISITE(S)** | - |
| **COURSE CONTENT** | Information about joints on human body, their structures, localizations, ligaments and movements. |
| **COURSE AIMS** | Give knowledge and provide the understanding of joints on human body, their structures, localizations, ligaments and movements. |
| **COURSE OBJECTIVES** | Get the knowledge about joints on human body, Determination of the place of the structure on human body, understanding of the functional importance and the ability to provide its clinical integration. |
| **TEXTBOOK(S)** | -Arıncı, K, Elhan, A: Anatomi, Cilt 1-2, 2. Baskı, Güneş Kitabevi, Ankara, 1997.-Langman Jan: Medizinische Embryologie, Band: 1-3, Georg Thieme Verlag, Stuttgart-New York.-Moore, KL: Clinically Oriented Anatomy. 3th Edition, Williams and Wilkins, Baltimore, 1992.-Williams P.L.: Gray’s Anatomy, 38.edition, ELBS with Churchill Livingstone, Great Britain, 1995. |
| **REFERENCES** | -Netter F.H.:Atlas of Human Anatomy, Seventh Edition, Ciba-Geigy Corporation, 1994. -Putz R, Pabst R.: Sobotta İnsan Anatomisi (çeviri: K.Arıncı), Beta Basım Yayın Dağıtım A.Ş., İstanbul, 1993. |

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|  |  **COURSE SYLLABUS** |
| **WEEK** | **SUBJECTS/TOPICS** |
| 1 | General information about joints I |
| 2 | General information about joints II |
| 3 | Joints of clavicula |
| 4 | Joints of upper limbs I |
| 5 | Joints of upper limbs II |
| 6 | Movements of hand, carpal canal  |
| 7 | Joints of lower limbs I |
| 8 | MID-TERM EXAM |
| 9 | Joints of lower limbs II |
| 10 | Movements of foot, foot arch |
| 11 | Joints of cranium |
| 12 | Joints of columna vertebralis |
| 13 | Movements of columna vertebralis as a whole |
| 14 | Joints of thorax and movements of thorax as a whole |
| 15 | Joints of pelvis |
| 16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **1** | **2** | **3** |
| 1 | gather as well as apply knowledge of health sciences |  |  | **🗴** |
| 2 | ask scientific questions and form hypothesis |  |  | **🗴** |
| 3 | search and interpret scientific literature |  |  | **🗴** |
| 4 | design and conduct experiments as well as analyze and interpret the data |  | **🗴**  |  |
| 5 | learn how to use the experimental equipment effectively |  | **🗴** |  |
| 6 | function on multi-disciplinary teams |  |  | **🗴** |
| 7 | identify, formulate, and solve medical problems |  |  | **🗴**  |
| 8 | use computer effectively both in conducting the experiments and analyzing the data | **🗴** |  |  |
| 9 | understand the impact of experimental solutions on national and international sciences |  | **🗴** |  |
| 10 | use effective written and oral communication/presentation skills |  | **🗴**  |  |
| 11 | get an understanding of professional and ethical responsibility |  | **🗴** |  |
| 12 | get a recognition of the need for, and an ability to engage in lifelong learning |  |  | **🗴** |
| 13 | other (……………………………………….)  |  |  |  |
| 14 | other (……………………………………….) |  |  |  |

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| **Instructor Name:**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY | **Sign:****Date** |

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| **COURSE CODE:** **521203213** |  | **DEPARTMENT: ANATOMY** |
| **COURSE NAME:** |  | **Topographic Anatomy of the Trunk** |
| **INSTRUCTORS NAME**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARDr. Öğr. Üyesi HAKAN AY | **COURSE LANGUAGE****Turkish:** 🗵**English:** □ | **Course Catagory** |
| Technical | Medical | Other(……) |
|  |  | **🗴** |  |

**COURSE LEVEL**

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| **PROPAEDEUTIC** | **M.Sc.** | **Ph.D.** | **COURSE of PROVINCE** |
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| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE of** |
| **Theoric** | **Practice** | **Laboratory** | **Credit** | **ECTS** | **TYPE** |
| Spring □Autumn 🗵 | 3 | 2  | - | 4 | 7,5 | COMPULSORY ELECTIVE□X |
|  |
| **ASSESMENT CRITERIA** |
| **MID-TERM** | **ACTIVITY** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term | **1** | **50**  |
| 2 nd Mid- Term |   |   |
| Quiz |  |   |
| Homework |   |   |
| Project |   |   |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL** | Quiz | **1** | **50** |
| Homework |  |  |
| Project |  |  |
| Oral Exam |  |  |
| Other(……………….) |  |  |
| **MAKE-UP EXAM** | Oral | Written | Oral and Written | Multiple Choice |
|  |  | 🗴 |  |
| **PREREQUISITE(S)** | - |
| **COURSE CONTENT** | In this course, it is given briefly the basic topographic anatomic knowledge about the bones, joints, muscles and organs of the trunk. |
| **COURSE AIMS** | Give the anatomical information about the trunk and make clear the functional importance. |
| **COURSE OBJECTIVES** | Determination of anatomic points of the trunkal organs and its place on human body system, understanding of the functional importance, the ability to provide the clinical integration (relations) of the systems. |
| **TEXTBOOK(S)** | -Arıncı, K, Elhan, A: Anatomi, Cilt 1-2, 2. Baskı, Güneş Kitabevi, Ankara, 1997.-Langman Jan: Medizinische Embryologie, Band: 1-3, Georg Thieme Verlag, Stuttgart-New York.-Moore, KL: Clinically Oriented Anatomy. 3th Edition, Williams and Wilkins, Baltimore, 1992.-Williams P.L.: Gray’s Anatomy, 38.edition, ELBS with Churchill Livingstone, Great Britain, 1995. |
| **REFERENCES** | -Netter F.H.:Atlas of Human Anatomy, Seventh Edition, Ciba-Geigy Corporation, 1994. -Putz R, Pabst R.: Sobotta İnsan Anatomisi (çeviri: K.Arıncı), Beta Basım Yayın Dağıtım A.Ş., İstanbul, 1993. |

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|  |  **COURSE SYLLABUS** |
| **WEEK** | **SUBJECTS/TOPICS** |
| 1 | Parts, boundaries and surface anatomy of the trunk. |
| 2 | Vertebral column, axial skeleton (ribs, sternum) and pelvic bones. |
| 3 | Joints of the vertebra, ribs, sternum and pelvic bones. |
| 4 | Pectoral, abdominal and pelvic muscles. |
| 5 | Location, anatomy of the heart and related structures. |
| 6 | Major vessels entering and exiting the brain. |
| 7 | Lymphatic structures. |
| 8 | MID-TERM EXAM |
| 9 | Location and anatomy of the respiratory organs. |
| 10 | Anatomy of the gastrointestinal sistem - I |
| 11 | Anatomy of the gastrointestinal sistem - II |
| 12 | Anatomy of the pelvic organs |
| 13 | Male reproductive system. |
| 14 | Female reproductive system. |
| 15 | Spinal cord, spinal nerves and other nerves of the trunk. |
| 16 | FINAL EXAM |

**PROGRAM QUTCOMES**

Place choose never(1), few(2) or many(3) regarding your course

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NO** |  | **1** | **2** | **3** |
| 1 | gather as well as apply knowledge of health sciences |  |  | **🗴** |
| 2 | ask scientific questions and form hypothesis |  |  | **🗴** |
| 3 | search and interpret scientific literature |  |  | **🗴** |
| 4 | design and conduct experiments as well as analyze and interpret the data | **🗴**  |  |  |
| 5 | learn how to use the experimental equipment effectively | **🗴** |  |  |
| 6 | function on multi-disciplinary teams |  | **🗴** |  |
| 7 | identify, formulate, and solve medical problems |  | **🗴**  |  |
| 8 | use computer effectively both in conducting the experiments and analyzing the data | **🗴** |  |  |
| 9 | understand the impact of experimental solutions on national and international sciences | **🗴** |  |  |
| 10 | use effective written and oral communication/presentation skills |  | **🗴**  |  |
| 11 | get an understanding of professional and ethical responsibility |  | **🗴** |  |
| 12 | get a recognition of the need for, and an ability to engage in lifelong learning |  |  | **🗴** |
| 13 | other (……………………………………….)  |  |  |  |
| 14 | other (……………………………………….) |  |  |  |

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| **Instructor Name:**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARDr. Öğr. Üyesi HAKAN AY | **Sign:****Date** |

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| **COURSE CODE:** | **521203214**  | **DEPARTMENT: ANATOMY** |
| **COURSE NAME:** |  | **Anatomy of the Upper and Lower Extremities** |
| **INSTRUCTORS NAME**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARDr. Öğr. Üyesi HAKAN AY | **COURSE LANGUAGE****Turkish:** 🗵**English:** □ | **Course Catagory** |
| Technical | Medical | Other(……) |
|  |  | **🗴** |  |

**COURSE LEVEL**

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| **PROPAEDEUTIC** | **M.Sc.** | **Ph.D.** | **COURSE of PROVINCE** |
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| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE of** |
| **Theoric** | **Practice** | **Laboratory** | **Credit** | **ECTS** | **TYPE** |
| Spring □Autumn 🗵 | 2 | 2  | - | 3 | 7,5 | COMPULSORY ELECTIVE🗵□ |
|  |
| **ASSESMENT CRITERIA** |
| **MID-TERM** | **ACTIVITY** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term | **1** | **50**  |
| 2 nd Mid- Term |   |   |
| Quiz |  |   |
| Homework |   |   |
| Project |   |   |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL** | Quiz | **1** | **50** |
| Homework |  |  |
| Project |  |  |
| Oral Exam |  |  |
| Other(……………….) |  |  |
| **MAKE-UP EXAM** | Oral | Written | Oral and Written | Multiple Choice |
|  |  | 🗴 |  |
| **PREREQUISITE(S)** | - |
| **COURSE CONTENT** | In this course, it is given briefly the basic anatomic knowledge about the bones, joints, muscles, vessels and nerves of the upper and lower limbs. |
| **COURSE AIMS** | Give the anatomical information about the upper and lower limbs and make clear the functional importance. |
| **COURSE OBJECTIVES** | Determination of anatomic points of the upper and lower limbs and its place on human body system, understanding of the functional importance, the ability to provide the clinical integration (relations) of the systems. |
| **TEXTBOOK(S)** | -Arıncı, K, Elhan, A: Anatomi, Cilt 1-2, 2. Baskı, Güneş Kitabevi, Ankara, 1997.-Langman Jan: Medizinische Embryologie, Band: 1-3, Georg Thieme Verlag, Stuttgart-New York.-Moore, KL: Clinically Oriented Anatomy. 3th Edition, Williams and Wilkins, Baltimore, 1992.-Williams P.L.: Gray’s Anatomy, 38.edition, ELBS with Churchill Livingstone, Great Britain, 1995. |
| **REFERENCES** | -Netter F.H.:Atlas of Human Anatomy, Seventh Edition, Ciba-Geigy Corporation, 1994. -Putz R, Pabst R.: Sobotta İnsan Anatomisi (çeviri: K.Arıncı), Beta Basım Yayın Dağıtım A.Ş., İstanbul, 1993. |

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|  |  **COURSE SYLLABUS** |
| **WEEK** | **SUBJECTS/TOPICS** |
| 1 | Bones of the upper limbs. |
| 2 | Joints of the upper limbs. |
| 3 | Muscles of the shoulder and arm |
| 4 | Muscles of the forearm and hand. |
| 5 | Vessels and lymphatics of the upper limbs. |
| 6 | Brachial plexus |
| 7 | Nerves of the upper limbs. |
| 8 | MID-TERM EXAM |
| 9 | Bones of the lower limbs. |
| 10 | Joints of the lower limbs. |
| 11 | Muscles of the gluteal region and thigh. |
| 12 | Muscles of the leg and foot. |
| 13 | Vessels and lymphatics of the lower limbs. |
| 14 | Lumbal and sacral plexus |
| 15 | Nerves of the lower limbs. |
| 16 | FINAL EXAM |

**PROGRAM QUTCOMES**

Place choose never(1), few(2) or many(3) regarding your course

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NO** |  | **1** | **2** | **3** |
| 1 | gather as well as apply knowledge of health sciences |  |  | **🗴** |
| 2 | ask scientific questions and form hypothesis |  |  | **🗴** |
| 3 | search and interpret scientific literature |  |  | **🗴** |
| 4 | design and conduct experiments as well as analyze and interpret the data | **🗴**  |  |  |
| 5 | learn how to use the experimental equipment effectively | **🗴** |  |  |
| 6 | function on multi-disciplinary teams |  | **🗴** |  |
| 7 | identify, formulate, and solve medical problems |  | **🗴**  |  |
| 8 | use computer effectively both in conducting the experiments and analyzing the data | **🗴** |  |  |
| 9 | understand the impact of experimental solutions on national and international sciences | **🗴** |  |  |
| 10 | use effective written and oral communication/presentation skills |  | **🗴**  |  |
| 11 | get an understanding of professional and ethical responsibility |  | **🗴** |  |
| 12 | get a recognition of the need for, and an ability to engage in lifelong learning |  |  | **🗴** |
| 13 | other (……………………………………….)  |  |  |  |
| 14 | other (……………………………………….) |  |  |  |

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| **Instructor Name:**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARDr. Öğr. Üyesi HAKAN AY | **Sign:****Date** |

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| **COURSE CODE:** | **521203215** | **DEPARTMENT: ANATOMY** |
| **COURSE NAME:** | MEDICAL TERMINOLOGY AND BASIC CONCEPTS IN MEDICINE |  |
| **INSTRUCTOR NAME****Prof. Dr. Nedim ÜNAL** | **COURSE LANGUAGE****Turkish: X****English: ** | **Course Catagory** |
| Technical | Medical | Other(……) |
|  |  |  | X |  |

**COURSE LEVEL**

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| **PROPAEDEUTIC** | **M.SC.** | **Ph.D.** | **COURSE OF PROVINCE** |
| **** | **X** | **** | **** |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE OF** |
| **Theoric** | **Practice** | **Laboratory** | **Credit** | **ECTS** | **TYPE** |
| Spring ****Autumn **X** |  3 |  - | -  | 3  | 7,5 | COMPULSORY ELECTIVE **X ** |
|  |
| **ASSESMENT CRITERIA** |
| **MID-TERM** | **ACTIVITY** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term |  1 | 50  |
| 2 nd Mid- Term |   |   |
| Quiz |  |   |
| Homework |   |   |
| Project |   |   |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL** | Quiz | **1** | **50** |
| Homework |  |  |
| Project |  |  |
| Oral Exam |  |  |
| Other(……………….) |  |  |
| **MAKE-UP EXAM** | Oral | Written | Oral and Written | Multiple Choice |
|  |  | **X** |  |
| **PREREQUISITE(S)** |  - |
| **COURSE CONTENT** |  Latin is an international language of anatomical science. International terminology studies that have been lasting approximately 150 years are obtained an important approach and discipline to anatomical science. Therefore, the members of this society have to learn and use this common Latin language. |
| **COURSE AIMS** |  In this course, detailed information about the usage and fundamentals of the Latin terminology will be given. While giving this knowledge, the relationship betweeen basic and clinical sciences has to be emphasized. |
| **COURSE OBJECTIVES** |  Students will be able to understand and use Latin anatomical terminology. |
| **TEXTBOOK(S)** |  Adolf Faller : Wörterbuch der anatomischen Fachbegriffe. J.F.Bergmann/München Gerhard Krüger : Der anatomische Wortschatz . UTB Steinkoff/Darmstadt |
| **REFERENCES** |  -Netter F.H.:Atlas of Human Anatomy, Seventh Edition, Ciba-Geigy Corporation, 1994. -Putz R, Pabst R.: Sobotta İnsan Anatomisi (çeviri: K.Arıncı), Beta Basım Yayın Dağıtım A.Ş., İstanbul, 1993. |

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|  |  **COURSE SYLLABUS** |
| **WEEK** |  **DATE** | **SUBJECTS/TOPICS** |
| 1 |  | Basics of Latin language |
| 2 |  | Basics of Latin language |
| 3 |  | Common prefixes in medicine |
| 4 |  | Common prefixes in medicine |
| 5 |  | Basics of Latin words |
| 6 |  | Basics of Latin words |
| 7 |  | MID-TERM EXAM |
| 8 |  | Roots of Latin words |
| 9 |  | Roots of Latin words |
| 10 |  | Suffixes in medicine |
| 11 |  | Suffixes in medicine |
| 12 |  | Use of common terminology in medicine |
| 13 |  | Use of common terminology in medicine |
| 14 |  | Use of common terminology in medicine |
| 15 |  | Use of common terminology in medicine |
| 16 |  | FINAL EXAM |

**PROGRAM QUTCOMES**

Place choose never(1), few(2) or many(3) regarding your course

|  |  |  |  |  |
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| **NO** |  | **1** | **2** | **3** |
| 1 | gather as well as apply knowledge of health sciences |  |  | **X** |
| 2 | ask scientific questions and form hypothesis |  | **X** |  |
| 3 | search and interpret scientific literature |  | **X**  |  |
| 4 | design and conduct experiments as well as analyze and interpret the data |  | **X**  |  |
| 5 | learn how to use the experimental equipment effectively | **X** |  |  |
| 6 | function on multi-disciplinary teams |  | **X** |  |
| 7 | identify, formulate, and solve medical problems |  | **X** |  |
| 8 | use computer effectively both in conducting the experiments and analyzing the data | **X**  |  |  |
| 9 | understand the impact of experimental solutions on national and international sciences |  | **X**  |  |
| 10 | use effective written and oral communication/presentation skills | **X** |  |  |
| 11 | get an understanding of professional and ethical responsibility |  | **X**  |  |
| 12 | get a recognition of the need for, and an ability to engage in lifelong learning |  | **X** |  |
| 13 | other (……………………………………….)  |  |  | **X** |
| 14 | other (……………………………………….) |  | **X** |  |

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| **Instructor Name****Sign****Prof. Dr. Nedim ÜNAL** |  **Date** |

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| **COURSE CODE:** | **521204201** | **DEPARTMENT: ANATOMY** |
| **COURSE NAME:** | GROSS ANATOMY II |
| **INSTRUCTOR NAME**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY | **COURSE LANGUAGE****Turkish:** 🗵**English:** □ | **Course Catagory** |
| Technical | Medical | Other(……) |
|  |  | **🗴** |  |

**COURSE LEVEL**

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| **PROPAEDEUTIC** | **M.Sc.** | **Ph.D.** | **COURSE of PROVINCE** |
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| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE of** |
| **Theoric** | **Practice** | **Laboratory** | **Credit** | **ECTS** | **TYPE** |
| Spring 🗵Autumn □ | 2 | 2 | - | 3 | 7,5 | COMPULSORY ELECTIVE□🗵 |
|  |
| **ASSESMENT CRITERIA** |
| **MID-TERM** | **ACTIVITY** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term | **1** | **50**  |
| 2 nd Mid- Term |   |   |
| Quiz |  |   |
| Homework |   |   |
| Project |   |   |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL** | Quiz | **1** | **50** |
| Homework |  |  |
| Project |  |  |
| Oral Exam |  |  |
| Other(……………….) |  |  |
| **MAKE-UP EXAM** | Oral | Written | Oral and Written | Multiple Choice |
|  |  | 🗴 |  |
| **PREREQUISITE(S)** |  |
| **COURSE CONTENT** | In this course, it is given briefly the basic anatomic knowledge about the respiratory, cardiovascular, digestive, urogenital and endocrine system |
| **COURSE AIMS** | Give the anatomical information about the related systems and make clear the functional importance. |
| **COURSE OBJECTIVES** | Determination of anatomic points of the related systems and its place on human body system, understanding of the functional importance, the ability to provide the clinical integration (relations) of the systems |
| **TEXTBOOK(S)** | -Arıncı, K, Elhan, A: Anatomi, Cilt 1-2, 2. Baskı, Güneş Kitabevi, Ankara, 1997.-Langman Jan: Medizinische Embryologie, Band: 1-3, Georg Thieme Verlag, Stuttgart-New York.-Moore, KL: Clinically Oriented Anatomy. 3th Edition, Williams and Wilkins, Baltimore, 1992.-Williams P.L.: Gray’s Anatomy, 38.edition, ELBS with Churchill Livingstone, Great Britain, 1995. |
| **REFERENCES** | -Netter F.H.:Atlas of Human Anatomy, Seventh Edition, Ciba-Geigy Corporation, 1994. -Putz R, Pabst R.: Sobotta İnsan Anatomisi (çeviri: K.Arıncı), Beta Basım Yayın Dağıtım A.Ş., İstanbul, 1993. |

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|  |  **COURSE SYLLABUS** |
| **WEEK** | **SUBJECTS/TOPICS** |
| 1 | Cardiac surfaces, cardiac chambers, localization of the heart, pericardium |
| 2 | Vessels and nerve supply of the heart, lymphatic drainage of heart, Conduction system of the heart |
| 3 | Arterial and venous circulation, aorta, pulmonary trunk and their branches, lymphatic circulation |
| 4 | Nose and paranasal sinuses, larynx |
| 5 | Trachea and bronchi, lungs, cavitas thoracis, pleurae and mediastinum  |
| 6 | Oral cavity and related structures, fauces, salivary glands, pharynx, oesophagus |
| 7 | Stomach, small and large intestine  |
| 8 | MIDTERM EXAM |
| 9 | Liver, biliary ducts and gallbladder |
| 10 | Peritoneum, abdominal regions, localizations of abdominal organs |
| 11 | Kidneys, ureters, urinary bladder, male and female urethra |
| 12 | Female external and internal genital organs |
| 13 | Female external and internal genital organs |
| 14 | Pelvic floor and fossa ischiorectalis |
| 15 | Endocrine glands |
| 16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **1** | **2** | **3** |
| 1 | gather as well as apply knowledge of health sciences |  |  | **🗴** |
| 2 | ask scientific questions and form hypothesis |  |  | **🗴** |
| 3 | search and interpret scientific literature |  |  | **🗴** |
| 4 | design and conduct experiments as well as analyze and interpret the data |  | **🗴**  |  |
| 5 | learn how to use the experimental equipment effectively |  | **🗴** |  |
| 6 | function on multi-disciplinary teams |  |  | **🗴** |
| 7 | identify, formulate, and solve medical problems |  |  | **🗴**  |
| 8 | use computer effectively both in conducting the experiments and analyzing the data | **🗴** |  |  |
| 9 | understand the impact of experimental solutions on national and international sciences |  | **🗴** |  |
| 10 | use effective written and oral communication/presentation skills |  | **🗴**  |  |
| 11 | get an understanding of professional and ethical responsibility |  | **🗴** |  |
| 12 | get a recognition of the need for, and an ability to engage in lifelong learning |  |  | **🗴** |
| 13 | other (……………………………………….)  |  |  |  |
| 14 | other (……………………………………….) |  |  |  |

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| **Instructor Name:**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY | **Sign:****Date** |

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| **COURSE CODE:** | **521204202** | **DEPARTMENT: ANATOMY** |
| **COURSE NAME:** | BASIC PRINCIPLES IN NEUROSCIENCE |
| **INSTRUCTOR NAME**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY | **COURSE LANGUAGE****Turkish:** 🗵**English:** □ | **Course Catagory** |
| Technical | Medical | Other(……) |
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**COURSE LEVEL**

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| **PROPAEDEUTIC** | **M.Sc.** | **Ph.D.** | **COURSE of PROVINCE** |
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| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE of** |
| **Theoric** | **Practice** | **Laboratory** | **Credit** | **ECTS** | **TYPE** |
| Spring 🗵Autumn □ | 2 | 2 | - | 3 | 7,5 | COMPULSORY ELECTIVE□🗵 |
|  |
| **ASSESMENT CRITERIA** |
| **MID-TERM** | **ACTIVITY** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term | **1** | **50**  |
| 2 nd Mid- Term |   |   |
| Quiz |  |   |
| Homework |   |   |
| Project |   |   |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL** | Quiz | **1** | **50** |
| Homework |  |  |
| Project |  |  |
| Oral Exam |  |  |
| Other(……………….) |  |  |
| **MAKE-UP EXAM** | Oral | Written | Oral and Written | Multiple Choice |
|  |  | 🗴 |  |
| **PREREQUISITE(S)** | - |
| **COURSE CONTENT** | The first part of the course deals with the introductory concepts of the nervous system, such as cellular biology of the neuron and neuroglia, electrochemical properties of nervous transmission and neuronal proteins. In the second part, orientation to nervous system, anatomical organization of functional systems will be examined and special emphasis will be given to cerebral cortex. |
| **COURSE AIMS** | This course is intended to provide the student with baseline information required for understanding the structure and function of the adult nervous system.  |
| **COURSE OBJECTIVES** | By the end of this course, students will be able to learn the structures that constitute the nervous system and processing principles of them. |
| **TEXTBOOK(S)** | -Arıncı, K, Elhan, A: Anatomi, Cilt 1-2, 2. Baskı, Güneş Kitabevi, Ankara, 1997.-Langman Jan: Medizinische Embryologie, Band: 1-3, Georg Thieme Verlag, Stuttgart-New York.-Moore, KL: Clinically Oriented Anatomy. 3th Edition, Williams and Wilkins, Baltimore, 1992.-Williams P.L.: Gray’s Anatomy, 38.edition, ELBS with Churchill Livingstone, Great Britain, 1995. |
| **REFERENCES** | -Netter F.H.:Atlas of Human Anatomy, Seventh Edition, Ciba-Geigy Corporation, 1994. -Putz R, Pabst R.: Sobotta İnsan Anatomisi (çeviri: K.Arıncı), Beta Basım Yayın Dağıtım A.Ş., İstanbul, 1993. |

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|  |  **COURSE SYLLABUS** |
| **WEEK** | **SUBJECTS/TOPICS** |
| 1 | The cellular components of nervous tissue |
| 2 | Electrochemical properties of nervous transmission |
| 3 | The membrane potential |
| 4 | The action potential |
| 5 | Release of neurotransmitters and neurotransmitter receptors |
| 6 | Cell-cell communication |
| 7 | Information processing in dendrites |
| 8 | MID-TERM EXAM |
| 9 | Orientation to central nervous system |
| 10 | Fundamentals of sensory systems |
| 11 | Fundamentals of motor systems |
| 12 | Cerebral topography |
| 13 | Laminar and columnar oranization of the neocortex |
| 14 | Sensory and motor cortical areas |
| 15 | Hemispheric asymmetries |
| 16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **1** | **2** | **3** |
| 1 | gather as well as apply knowledge of health sciences |  |  | **🗴** |
| 2 | ask scientific questions and form hypothesis |  |  | **🗴** |
| 3 | search and interpret scientific literature |  |  | **🗴** |
| 4 | design and conduct experiments as well as analyze and interpret the data |  | **🗴**  |  |
| 5 | learn how to use the experimental equipment effectively |  | **🗴** |  |
| 6 | function on multi-disciplinary teams |  |  | **🗴** |
| 7 | identify, formulate, and solve medical problems |  |  | **🗴**  |
| 8 | use computer effectively both in conducting the experiments and analyzing the data | **🗴** |  |  |
| 9 | understand the impact of experimental solutions on national and international sciences |  | **🗴** |  |
| 10 | use effective written and oral communication/presentation skills |  | **🗴**  |  |
| 11 | get an understanding of professional and ethical responsibility |  | **🗴** |  |
| 12 | get a recognition of the need for, and an ability to engage in lifelong learning |  |  | **🗴** |
| 13 | other (……………………………………….)  |  |  |  |
| 14 | other (……………………………………….) |  |  |  |

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| **Instructor Name:**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY | **Sign:****Date** |

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| **COURSE CODE:** | **521206203** | **DEPARTMENT: ANATOMY** |
| **COURSE NAME:** | ANATOMY OF THE SPECIAL SENSE ORGANS |
| **INSTRUCTOR NAME**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY | **COURSE LANGUAGE****Turkish:** 🗵**English:** □ | **Course Catagory** |
| Technical | Medical | Other(……) |
|  |  | **🗴** |  |

**COURSE LEVEL**

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| **PROPAEDEUTIC** | **M.Sc.** | **Ph.D.** | **COURSE of PROVINCE** |
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| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE of** |
| **Theoric** | **Practice** | **Laboratory** | **Credit** | **ECTS** | **TYPE** |
| Spring 🗵Autumn □ | 1 | 1 | - | 1,5 | 2,5 | COMPULSORY ELECTIVE□🗵 |
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| **ASSESMENT CRITERIA** |
| **MID-TERM** | **ACTIVITY** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term | **1** | **50**  |
| 2 nd Mid- Term |   |   |
| Quiz |  |   |
| Homework |   |   |
| Project |   |   |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL** | Quiz | **1** | **50** |
| Homework |  |  |
| Project |  |  |
| Oral Exam |  |  |
| Other(……………….) |  |  |
| **MAKE-UP EXAM** | Oral | Written | Oral and Written | Multiple Choice |
|  |  | 🗴 |  |
| **PREREQUISITE(S)** | - |
| **COURSE CONTENT** | In this course, it is given the basic anatomic knowledge about the visual auditory and vestibular, gustatory and olfactory sense organs. |
| **COURSE AIMS** | Give the anatomical information about the sense organs and make clear the functional importance. |
| **COURSE OBJECTIVES** | Determination of anatomic points of the sense organs and its place on human body, understanding of the functional importance, the ability to provide the clinical integration (relations). |
| **TEXTBOOK(S)** | -Arıncı, K, Elhan, A: Anatomi, Cilt 1-2, 2. Baskı, Güneş Kitabevi, Ankara, 1997.-Langman Jan: Medizinische Embryologie, Band: 1-3, Georg Thieme Verlag, Stuttgart-New York.-Moore, KL: Clinically Oriented Anatomy. 3th Edition, Williams and Wilkins, Baltimore, 1992.-Williams P.L.: Gray’s Anatomy, 38.edition, ELBS with Churchill Livingstone, Great Britain, 1995. |
| **REFERENCES** | -Netter F.H.:Atlas of Human Anatomy, Seventh Edition, Ciba-Geigy Corporation, 1994. -Putz R, Pabst R.: Sobotta İnsan Anatomisi (çeviri: K.Arıncı), Beta Basım Yayın Dağıtım A.Ş., İstanbul, 1993. |
|  |  **COURSE SYLLABUS** |
| **WEEK** | **SUBJECTS/TOPICS** |
| 1 | The development of the visual apparatus |
| 2 | The structure of the eyeball |
| 3 | The components of the ocular refractive media |
| 4 | The accessory visual apparatus, lacrimal apparatus |
| 5 | Optic nerve and visual pathways |
| 6 | The development of the auditory and vestibular apparatus  |
| 7 | External and middle ear |
| 8 | MID-TERM EXAM |
| 9 | Internal ear |
| 10 | Auditory and vestibular pathways |
| 11 | The development of the gustatory and olfactory apparatus |
| 12 | The gustatory apparatus |
| 13 | The olfactory apparatus |
| 14 | Gustatory and olfactory pathways |
| 15 | Clinical anatomy of the sense organs |
| 16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **1** | **2** | **3** |
| 1 | gather as well as apply knowledge of health sciences |  |  | **🗴** |
| 2 | ask scientific questions and form hypothesis |  |  | **🗴** |
| 3 | search and interpret scientific literature |  |  | **🗴** |
| 4 | design and conduct experiments as well as analyze and interpret the data |  | **🗴**  |  |
| 5 | learn how to use the experimental equipment effectively |  | **🗴** |  |
| 6 | function on multi-disciplinary teams |  |  | **🗴** |
| 7 | identify, formulate, and solve medical problems |  |  | **🗴**  |
| 8 | use computer effectively both in conducting the experiments and analyzing the data | **🗴** |  |  |
| 9 | understand the impact of experimental solutions on national and international sciences |  | **🗴** |  |
| 10 | use effective written and oral communication/presentation skills |  | **🗴**  |  |
| 11 | get an understanding of professional and ethical responsibility |  | **🗴** |  |
| 12 | get a recognition of the need for, and an ability to engage in lifelong learning |  |  | **🗴** |
| 13 | other (……………………………………….)  |  |  |  |
| 14 | other (……………………………………….) |  |  |  |

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| **Instructor Name:**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY | **Sign:****Date** |

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| **COURSE CODE:** | **521204206** | **DEPARTMENT: ANATOMY** |
| **COURSE NAME:** | ANATOMY OF THE UROGENITAL SYSTEM |
| **INSTRUCTOR NAME**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY | **COURSE LANGUAGE****Turkish:** 🗵**English:** □ | **Course Catagory** |
| Technical | Medical | Other(……) |
|  |  | **🗴** |  |

**COURSE LEVEL**

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| **PROPAEDEUTIC** | **M.Sc.** | **Ph.D.** | **COURSE of PROVINCE** |
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| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE of** |
| **Theoric** | **Practice** | **Laboratory** | **Credit** | **ECTS** | **TYPE** |
| Spring 🗵Autumn □ | 2 | 2 | - | 3 | 7,5 | COMPULSORY ELECTIVE□🗵 |
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| **ASSESMENT CRITERIA** |
| **MID-TERM** | **ACTIVITY** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term | **1** | **50**  |
| 2 nd Mid- Term |   |   |
| Quiz |  |   |
| Homework |   |   |
| Project |   |   |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL** | Quiz | **1** | **50** |
| Homework |  |  |
| Project |  |  |
| Oral Exam |  |  |
| Other(……………….) |  |  |
| **MAKE-UP EXAM** | Oral | Written | Oral and Written | Multiple Choice |
|  |  | 🗴 |  |
| **PREREQUISITE(S)** | - |
| **COURSE CONTENT** | In this course, it is given the development and mechanism of the urogenital system, basic anatomic knowledge about the urinary system, male and female genital system. |
| **COURSE AIMS** | Give the anatomical information about the urogenital system and make clear the functional importance. |
| **COURSE OBJECTIVES** | Determination of anatomic points of the related system and its place on human body system, understanding of the functional importance, the ability to provide the clinical integration (relations) of the system. |
| **TEXTBOOK(S)** | -Arıncı, K, Elhan, A: Anatomi, Cilt 1-2, 2. Baskı, Güneş Kitabevi, Ankara, 1997.-Langman Jan: Medizinische Embryologie, Band: 1-3, Georg Thieme Verlag, Stuttgart-New York.-Moore, KL: Clinically Oriented Anatomy. 3th Edition, Williams and Wilkins, Baltimore, 1992.-Williams P.L.: Gray’s Anatomy, 38.edition, ELBS with Churchill Livingstone, Great Britain, 1995. |
| **REFERENCES** | -Netter F.H.:Atlas of Human Anatomy, Seventh Edition, Ciba-Geigy Corporation, 1994. -Putz R, Pabst R.: Sobotta İnsan Anatomisi (çeviri: K.Arıncı), Beta Basım Yayın Dağıtım A.Ş., İstanbul, 1993. |

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|  |  **COURSE SYLLABUS** |
| **WEEK** | **SUBJECTS/TOPICS** |
| 1 | Development of the urinary system |
| 2 | Development of the genital (reproductive) system |
| 3 | Kidneys |
| 4 | Ureters, urinary bladder |
| 5 | Gll.suprarenales |
| 6 | Male and female urethra |
| 7 | Practice |
| 8 | MIDTERM EXAM |
| 9 | Male external genital organs |
| 10 | Male internal genital organs |
| 11 | Female external genital organs |
| 12 | Female internal genital organs |
| 13 | Pelvic floor and fossa ischiorectalis |
| 14 | Retroperitoneal structures |
| 15 | Practice |
| 16 | FINAL EXAM |

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| --- | --- | --- | --- | --- |
| **NO** | **PROGRAM OUTCOMES** | **1** | **2** | **3** |
| 1 | gather as well as apply knowledge of health sciences |  |  | **🗴** |
| 2 | ask scientific questions and form hypothesis |  |  | **🗴** |
| 3 | search and interpret scientific literature |  |  | **🗴** |
| 4 | design and conduct experiments as well as analyze and interpret the data |  | **🗴**  |  |
| 5 | learn how to use the experimental equipment effectively |  | **🗴** |  |
| 6 | function on multi-disciplinary teams |  |  | **🗴** |
| 7 | identify, formulate, and solve medical problems |  |  | **🗴**  |
| 8 | use computer effectively both in conducting the experiments and analyzing the data | **🗴** |  |  |
| 9 | understand the impact of experimental solutions on national and international sciences |  | **🗴** |  |
| 10 | use effective written and oral communication/presentation skills |  | **🗴**  |  |
| 11 | get an understanding of professional and ethical responsibility |  | **🗴** |  |
| 12 | get a recognition of the need for, and an ability to engage in lifelong learning |  |  | **🗴** |
| 13 | other (……………………………………….)  |  |  |  |
| 14 | other (……………………………………….) |  |  |  |

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| **Instructor Name:**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY | **Sign:****Date** |

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| **COURSE CODE:** | **521206207** | **DEPARTMENT: ANATOMY** |
| **COURSE NAME:** | MODEL BASED STUDIES IN ANATOMY |
| **INSTRUCTOR NAME**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY | **COURSE LANGUAGE****Turkish:** 🗵**English:** □ | **Course Catagory** |
| Technical | Medical | Other(……) |
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**COURSE LEVEL**

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| **PROPAEDEUTIC** | **M.Sc.** | **Ph.D.** | **COURSE of PROVINCE** |
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| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE of** |
| **Theoric** | **Practice** | **Laboratory** | **Credit** | **ECTS** | **TYPE** |
| Spring 🗵Autumn □ | 1 | 2 | - | 2 | 5 | COMPULSORY ELECTIVE□🗵 |
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| **ASSESMENT CRITERIA** |
| **MID-TERM** | **ACTIVITY** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term | **1** | **50**  |
| 2 nd Mid- Term |   |   |
| Quiz |  |   |
| Homework |   |   |
| Project |   |   |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL** | Quiz | **1** | **50** |
| Homework |  |  |
| Project |  |  |
| Oral Exam |  |  |
| Other(……………….) |  |  |
| **MAKE-UP EXAM** | Oral | Written | Oral and Written | Multiple Choice |
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| **PREREQUISITE(S)** | - |
| **COURSE CONTENT** | The course consists mainly of laboratory and practical work, and studies that consolidate the systematic anatomy information with models for laboratory applications in topographic and clinical anatomy. |
| **COURSE AIMS** | Making laboratory studies to obtain conventional three dimensional anatomical knowledge. Converting the theoretical knowledge in to practical knowledge with the use and design of three dimensional models. |
| **COURSE OBJECTIVES** | The participant will have the qualification to make three dimensional visualizations and evaluate the relations between neighbor anatomical structures. |
| **TEXTBOOK(S)** | -Arıncı, K, Elhan, A: Anatomi, Cilt 1-2, 2. Baskı, Güneş Kitabevi, Ankara, 1997.-Langman Jan: Medizinische Embryologie, Band: 1-3, Georg Thieme Verlag, Stuttgart-New York.-Moore, KL: Clinically Oriented Anatomy. 3th Edition, Williams and Wilkins, Baltimore, 1992.-Williams P.L.: Gray’s Anatomy, 38.edition, ELBS with Churchill Livingstone, Great Britain, 1995. |
| **REFERENCES** | -Netter F.H.:Atlas of Human Anatomy, Seventh Edition, Ciba-Geigy Corporation, 1994. -Putz R, Pabst R.: Sobotta İnsan Anatomisi (çeviri: K.Arıncı), Beta Basım Yayın Dağıtım A.Ş., İstanbul, 1993. |

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|  |  **COURSE SYLLABUS** |
| **WEEK** | **SUBJECTS/TOPICS** |
| 1 | The Locomotor System  |
| 2 | Practice |
| 3 | The Digestive System |
| 4 | Practice |
| 5 | The Respiratory System |
| 6 | Practice |
| 7 | The Circulatory System |
| 8 | Practice |
| 9 | MID-TERM EXAM |
| 10 | The Urogenital System |
| 11 | Practice |
| 12 | The Nervous System |
| 13 | Practice |
| 14 | Sense Organs |
| 15 | Practice |
| 16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **1** | **2** | **3** |
| 1 | gather as well as apply knowledge of health sciences |  |  | **🗴** |
| 2 | ask scientific questions and form hypothesis |  |  | **🗴** |
| 3 | search and interpret scientific literature |  |  | **🗴** |
| 4 | design and conduct experiments as well as analyze and interpret the data |  | **🗴**  |  |
| 5 | learn how to use the experimental equipment effectively |  | **🗴** |  |
| 6 | function on multi-disciplinary teams |  |  | **🗴** |
| 7 | identify, formulate, and solve medical problems |  |  | **🗴**  |
| 8 | use computer effectively both in conducting the experiments and analyzing the data | **🗴** |  |  |
| 9 | understand the impact of experimental solutions on national and international sciences |  | **🗴** |  |
| 10 | use effective written and oral communication/presentation skills |  | **🗴**  |  |
| 11 | get an understanding of professional and ethical responsibility |  | **🗴** |  |
| 12 | get a recognition of the need for, and an ability to engage in lifelong learning |  |  | **🗴** |
| 13 | other (……………………………………….)  |  |  |  |
| 14 | other (……………………………………….) |  |  |  |

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| **Instructor Name:**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY | **Sign:****Date** |

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| **COURSE CODE:** | **521204208** | **DEPARTMENT: ANATOMY** |
| **COURSE NAME:** | CADAVER DISSECTION |
| **INSTRUCTOR NAME**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY | **COURSE LANGUAGE****Turkish:** 🗵**English:** □ | **Course Catagory** |
| Technical | Medical | Other(……) |
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**COURSE LEVEL**

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| **PROPAEDEUTIC** | **M.Sc.** | **Ph.D.** | **COURSE of PROVINCE** |
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| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE of** |
| **Theoric** | **Practice** | **Laboratory** | **Credit** | **ECTS** | **TYPE** |
| Spring 🗵Autumn □ | 2 | 2 | - | 3 | 7,5 | COMPULSORY ELECTIVE□🗵 |
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| **ASSESMENT CRITERIA** |
| **MID-TERM** | **ACTIVITY** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term | **1** | **50**  |
| 2 nd Mid- Term |   |   |
| Quiz |  |   |
| Homework |   |   |
| Project |   |   |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL** | Quiz | **1** | **50** |
| Homework |  |  |
| Project |  |  |
| Oral Exam |  |  |
| Other(……………….) |  |  |
| **MAKE-UP EXAM** | Oral | Written | Oral and Written | Multiple Choice |
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| **PREREQUISITE(S)** | - |
| **COURSE CONTENT** | In this course, it is given anatomic knowledge about the cadaver dissection at the topographic base. |
| **COURSE AIMS** | Give the information about cadaver dissection and make clear importance of the topographic relations. |
| **COURSE OBJECTIVES** | Determination of anatomic points of the systems and its place on human body system, understanding of the topographic relations, the ability to provide the clinical integration. |
| **TEXTBOOK(S)** | -Noyan F.: Anatomide disseksiyon. Çeliker Matbaacılık, 1962.Sauerland E.K.: Grant’s dissector (12.baskı), Lippincott Williams& Wilkins, 1999.-Jacobs J.J.: Shearer’s manual of human dissection (7.baskı) McGraw-Hill, 1989. |
| **REFERENCES** | -Rohen J.W., Yokoch C., Drecoll L.: Color atlas of anatomy: A photographic study of the human body (4.baskı), Williams& Wilkins, 1998.-Netter F.H.:Atlas of Human Anatomy, Seventh Edition, Ciba-Geigy Corporation, 1994. -Putz R, Pabst R.: Sobotta İnsan Anatomisi (çeviri: K.Arıncı), Beta Basım Yayın Dağıtım A.Ş., İstanbul, 1993. |

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|  |  **COURSE SYLLABUS** |
| **WEEK** | **SUBJECTS/TOPICS** |
| 1 | Introduction to anatomy, terminology and to dissection laboratory |
| 2 | Head and Neck I |
| 3 | Head and Neck II |
| 4 | Thorax I |
| 5 | Thorax II |
| 6 | Abdominal wall |
| 7 | Abdominal cavity, posterior abdominal wall |
| 8 | MID-TERM EXAM |
| 9 | Pelvis minor |
| 10 | Upper extremity’s surface anatomy  |
| 11 | Region of the upper extremity I |
| 12 | Region of the upper extremity II |
| 13 | Lower extremity’s surface anatomy |
| 14 | Region of the lower extremity I |
| 15 | Region of the lower extremity II |
| 16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **1** | **2** | **3** |
| 1 | gather as well as apply knowledge of health sciences |  |  | **🗴** |
| 2 | ask scientific questions and form hypothesis |  |  | **🗴** |
| 3 | search and interpret scientific literature |  |  | **🗴** |
| 4 | design and conduct experiments as well as analyze and interpret the data |  | **🗴**  |  |
| 5 | learn how to use the experimental equipment effectively |  |  | **🗴** |
| 6 | function on multi-disciplinary teams |  |  | **🗴** |
| 7 | identify, formulate, and solve medical problems |  |  | **🗴**  |
| 8 | use computer effectively both in conducting the experiments and analyzing the data | **🗴** |  |  |
| 9 | understand the impact of experimental solutions on national and international sciences |  | **🗴** |  |
| 10 | use effective written and oral communication/presentation skills |  | **🗴**  |  |
| 11 | get an understanding of professional and ethical responsibility |  |  | **🗴** |
| 12 | get a recognition of the need for, and an ability to engage in lifelong learning |  |  | **🗴** |
| 13 | other (……………………………………….)  |  |  |  |
| 14 | other (……………………………………….) |  |  |  |

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| **Instructor Name:**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY | **Sign:****Date** |

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| **COURSE CODE:** | **521204209** | **DEPARTMENT: ANATOMY** |
| **COURSE NAME:** | MORPHOMETRIC METHODS |
| INSTRUCTOR NAMEProf.Dr. Ferruh YÜCEL,  | **COURSE LANGUAGE****Turkish:** 🗵**English:** □ | **Course Catagory** |
| Technical | Medical | Other(……) |
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**COURSE LEVEL**

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| **PROPAEDEUTIC** | **M.Sc.** | **Ph.D.** | **COURSE of PROVINCE** |
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| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE of** |
| **Theoric** | **Practice** | **Laboratory** | **Credit** | **ECTS** | **TYPE** |
| Spring 🗵Autumn □ | 2 | 2 | - | 3 | 7,5 | COMPULSORY ELECTIVE□🗵 |
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| **ASSESMENT CRITERIA** |
| **MID-TERM** | **ACTIVITY** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term | **1** | **50**  |
| 2 nd Mid- Term |   |   |
| Quiz |  |   |
| Homework |   |   |
| Project |   |   |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL** | Quiz | **1** | **50** |
| Homework |  |  |
| Project |  |  |
| Oral Exam |  |  |
| Other(……………….) |  |  |
| **MAKE-UP EXAM** | Oral | Written | Oral and Written | Multiple Choice |
|  |  | 🗴 |  |
| **PREREQUISITE(S)** | - |
| **COURSE CONTENT** | Introduce the concept of morphometry. Explain the appearance of biological structures on the two-dimentional sections through the structure at the level of the light microscope (LM) and electron microscope (EM). A description of particle counting and measuring and also 2-D morphometric methods, which applied in experiments. Understand the magnification factor and calculate the magnification for true linear measurements such as mean diameter. Briefly consider the section thickness and its significance in morphometry. Discussion of numerical analysis and interpretation of data from biological morphometry. Role of sampling procedures from animal to section. |
| **COURSE AIMS** | To teach sampling, counting, measuring procedures of the biological particles. To describe the efficient techniques in morphometry. To reveal the significance of these methods in scientific experiments. To interpret the data obtained from the experiments. To compare the morphometric data with physiological and biochemical data obtained by other methods. |
| **COURSE OBJECTIVES** | At the end of the course students should: be able to overcome the difficulties in measuring and counting of the biological tissues. Be able to apply the suitable morphometric methods in their experimental researches. Be sufficently familiar with the interpretation of data from biological morphometry. Be able to compare their morphometric data with others such as physiological and biochemical data. Have an understanding of the relationship between normal and abnormal data of experiment. Be familiar with the use of some morphometric equipments. Be able to collaborate in doing research |
| **TEXTBOOK(S)** | Howard, CV and Reed, MG: Unbiased Stereology. BIOS Scientific Publishers Limited, Oxford, 1998. |
| **REFERENCES** | - |

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|  |  **COURSE SYLLABUS** |
| **WEEK** | **SUBJECTS/TOPICS** |
| 1 | Principles and terminology |
| 2 | Geometrical probes and their dimensions |
| 3 | Sampling and efficiency of sampling |
| 4 | Tools used in morphometry: grids, micrometer, counting frame  |
| 5 | Magnification correction |
| 6 | Measurement of section thickness |
| 7 | Practical |
| 8 | MIDTERM EXAM |
| 9 | Point counting |
| 10 | Estimation of surface area |
| 11 | Estimation of mean diameter |
| 12 | Estimation of boundary length |
| 13 | Ratios and densities |
| 14 | Number estimation |
| 15 | Practical |
| 16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **1** | **2** | **3** |
| 1 | gather as well as apply knowledge of health sciences |  |  | **🗴** |
| 2 | ask scientific questions and form hypothesis |  |  | **🗴** |
| 3 | search and interpret scientific literature |  |  | **🗴** |
| 4 | design and conduct experiments as well as analyze and interpret the data |  | **🗴**  |  |
| 5 | learn how to use the experimental equipment effectively |  | **🗴** |  |
| 6 | function on multi-disciplinary teams |  |  | **🗴** |
| 7 | identify, formulate, and solve medical problems |  |  | **🗴**  |
| 8 | use computer effectively both in conducting the experiments and analyzing the data | **🗴** |  |  |
| 9 | understand the impact of experimental solutions on national and international sciences |  | **🗴** |  |
| 10 | use effective written and oral communication/presentation skills |  | **🗴**  |  |
| 11 | get an understanding of professional and ethical responsibility |  | **🗴** |  |
| 12 | get a recognition of the need for, and an ability to engage in lifelong learning |  |  | **🗴** |
| 13 | other (……………………………………….)  |  |  |  |
| 14 | other (……………………………………….) |  |  |  |

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| **Instructor Name:**Prof.Dr. Ferruh YÜCEL | **Sign:****Date** |
| **COURSE CODE:** | **521204210** | **DEPARTMENT: ANATOMY** |
| **COURSE NAME:** | ANATOMY OF THE NERVOUS SYSTEM |
| **INSTRUCTOR NAME**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY | **COURSE LANGUAGE****Turkish:** 🗵**English:** □ | **Course Catagory** |
| Technical | Medical | Other(……) |
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**COURSE LEVEL**

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| **PROPAEDEUTIC** | **M.Sc.** | **Ph.D.** | **COURSE of PROVINCE** |
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| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE of** |
| **Theoric** | **Practice** | **Laboratory** | **Credit** | **ECTS** | **TYPE** |
| Spring 🗵Autumn □ | 3 | 2 | - | 4 | 7,5 | COMPULSORY ELECTIVE□🗵 |
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| **ASSESMENT CRITERIA** |
| **MID-TERM** | **ACTIVITY** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term | **1** | **50**  |
| 2 nd Mid- Term |   |   |
| Quiz |  |   |
| Homework |   |   |
| Project |   |   |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL** | Quiz | **1** | **50** |
| Homework |  |  |
| Project |  |  |
| Oral Exam |  |  |
| Other(……………….) |  |  |
| **MAKE-UP EXAM** | Oral | Written | Oral and Written | Multiple Choice |
|  |  | 🗴 |  |
| **PREREQUISITE(S)** | In this course, it is given basic anatomic knowledge about the nervous system |
| **COURSE CONTENT** | Give the anatomical information about the nervous system and make clear the functional importance. |
| **COURSE AIMS** |  |
| **COURSE OBJECTIVES** | Determination of anatomic points of the related system and its place on human body system, understanding of the functional importance, the ability to provide the clinical integration (relations) of the system. |
| **TEXTBOOK(S)** | -Arıncı, K, Elhan, A: Anatomi, Cilt 1-2, 2. Baskı, Güneş Kitabevi, Ankara, 1997.-Langman Jan: Medizinische Embryologie, Band: 1-3, Georg Thieme Verlag, Stuttgart-New York.-Moore, KL: Clinically Oriented Anatomy. 3th Edition, Williams and Wilkins, Baltimore, 1992.-Williams P.L.: Gray’s Anatomy, 38.edition, ELBS with Churchill Livingstone, Great Britain, 1995. |
| **REFERENCES** | -Netter F.H.:Atlas of Human Anatomy, Seventh Edition, Ciba-Geigy Corporation, 1994. -Putz R, Pabst R.: Sobotta İnsan Anatomisi (çeviri: K.Arıncı), Beta Basım Yayın Dağıtım A.Ş., İstanbul, 1993. |

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|  |  **COURSE SYLLABUS** |
| **WEEK** | **SUBJECTS/TOPICS** |
| 1 | Development of central nervous system |
| 2 | Neurons and their types |
| 3 | Organization of senses |
| 4 | Features of sensory receptors, classification of receptors |
| 5 | Spinal cord and spinal nerves |
| 6 | Bulbus |
| 7 | Pons |
| 8 | MID-TERM EXAM |
| 9 | Cerebellum |
| 10 | Mesencephalon, Diencephalon |
| 11 | Telencephalon, the main cortical areas  |
| 12 | Rhinencephalon, limbic lobe and olfactory pathways |
| 13 | Basal nuclei and extrapyramidal system |
| 14 | Ventricular system, meninges of the brain, cranial vessels |
| 15 | Autonomic Nervous System |
| 16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **1** | **2** | **3** |
| 1 | gather as well as apply knowledge of health sciences |  |  | **🗴** |
| 2 | ask scientific questions and form hypothesis |  |  | **🗴** |
| 3 | search and interpret scientific literature |  |  | **🗴** |
| 4 | design and conduct experiments as well as analyze and interpret the data |  | **🗴**  |  |
| 5 | learn how to use the experimental equipment effectively |  | **🗴** |  |
| 6 | function on multi-disciplinary teams |  |  | **🗴** |
| 7 | identify, formulate, and solve medical problems |  |  | **🗴**  |
| 8 | use computer effectively both in conducting the experiments and analyzing the data | **🗴** |  |  |
| 9 | understand the impact of experimental solutions on national and international sciences |  | **🗴** |  |
| 10 | use effective written and oral communication/presentation skills |  | **🗴**  |  |
| 11 | get an understanding of professional and ethical responsibility |  | **🗴** |  |
| 12 | get a recognition of the need for, and an ability to engage in lifelong learning |  |  | **🗴** |
| 13 | other (……………………………………….)  |  |  |  |
| 14 | other (……………………………………….) |  |  |  |

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| **Instructor Name:**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY | **Sign:****Date** |
| **COURSE CODE:** | **521204211** | **DEPARTMENT: ANATOMY** |
| **COURSE NAME:** | MICROSURGERY IN ANATOMY |
| **INSTRUCTOR NAME**Prof.Dr. Hilmi ÖZDEN,  | **COURSE LANGUAGE****Turkish:** 🗵**English:** □ | **Course Catagory** |
| Technical | Medical | Other(……) |
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**COURSE LEVEL**

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| **PROPAEDEUTIC** | **M.Sc.** | **Ph.D.** | **COURSE of PROVINCE** |
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| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE of** |
| **Theoric** | **Practice** | **Laboratory** | **Credit** | **ECTS** | **TYPE** |
| Spring 🗵Autumn □ | 2 | 3 | - | 3,5 | 7,5 | COMPULSORY ELECTIVE□🗵 |
|  |
| **ASSESMENT CRITERIA** |
| **MID-TERM** | **ACTIVITY** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term | **1** | **50**  |
| 2 nd Mid- Term |   |   |
| Quiz |  |   |
| Homework |   |   |
| Project |   |   |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL** | Quiz | **1** | **50** |
| Homework |  |  |
| Project |  |  |
| Oral Exam |  |  |
| Other(……………….) |  |  |
| **MAKE-UP EXAM** | Oral | Written | Oral and Written | Multiple Choice |
|  |  | 🗴 |  |
| **PREREQUISITE(S)** | - |
| **COURSE CONTENT** | Vascular anatomy and microsurgery of laboratory animals. |
| **COURSE AIMS** | Teaching students the principles of microsurgery and give them the ability to use it effective. |
| **COURSE OBJECTIVES** | Give the students the sufficiency to make experimental studies using microsurgical techniques. |
| **TEXTBOOK(S)** | Wayneforth H, Flecknel PA: Experimental in Surgical Technique in Rat. Academic Press 1994.Casting D, Houssin D, Bismuth H: Hepatic and Portal surgery in the Rat. Masson Publisching 1980.Başaran A: Deney Hayvanları Laboratuvar Teknikleri. Nisan Kitabevi.Hebel R, Stromberg MW: Anatomy of the Laboratory Rat.Williams and Wilkins 1976. |
| **REFERENCES** | Rats and Technical Services. Zivic-Miller Laboratories Inc.1992 |
|  |  **COURSE SYLLABUS** |
| **WEEK** | **SUBJECTS/TOPICS** |
| 1 | The circulatory system of the rat |
| 2 | Heart, aortic arch, subclavian artery |
| 3 | Common carotid artery, thoracic aorta |
| 4 | Abdominal aorta, Ilıac arteries |
| 5 | Veins |
| 6 | The approach to surgery |
| 7 | Wound closure and suturing |
| 8 | MID-TERM EXAM |
| 9 | Sutures |
| 10 | Specific surgical operations |
| 11 | Dissection and anastomosis of the common carotid artery in the rat. |
| 12 | Dissection and anastomosis of the femoral artery in the rat. |
| 13 | Hepatectomy |
| 14 | Orchidectomy (castration) |
| 15 | Ovariectomy |
| 16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **1** | **2** | **3** |
| 1 | gather as well as apply knowledge of health sciences |  |  | **🗴** |
| 2 | ask scientific questions and form hypothesis |  |  | **🗴** |
| 3 | search and interpret scientific literature |  |  | **🗴** |
| 4 | design and conduct experiments as well as analyze and interpret the data |  |  | **🗴**  |
| 5 | learn how to use the experimental equipment effectively |  |  | **🗴** |
| 6 | function on multi-disciplinary teams |  |  | **🗴** |
| 7 | identify, formulate, and solve medical problems |  |  | **🗴**  |
| 8 | use computer effectively both in conducting the experiments and analyzing the data | **🗴** |  |  |
| 9 | understand the impact of experimental solutions on national and international sciences |  | **🗴** |  |
| 10 | use effective written and oral communication/presentation skills |  | **🗴**  |  |
| 11 | get an understanding of professional and ethical responsibility |  |  | **🗴** |
| 12 | get a recognition of the need for, and an ability to engage in lifelong learning |  |  | **🗴** |
| 13 | other (……………………………………….)  |  |  |  |
| 14 | other (……………………………………….) |  |  |  |

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| **Instructor Name:**Prof.Dr. Hilmi ÖZDEN | **Sign:****Date** |

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| **COURSE CODE:** | **521206212** | **DEPARTMENT: ANATOMY** |
| **COURSE NAME:** | MYOLOGY |
| **INSTRUCTOR NAME**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY | **COURSE LANGUAGE****Turkish:** 🗵**English:** □ | **Course Catagory** |
| Technical | Medical | Other(……) |
|  |  | **🗴** |  |

**COURSE LEVEL**

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| **PROPAEDEUTIC** | **M.Sc.** | **Ph.D.** | **COURSE of PROVINCE** |
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| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE of** |
| **Theoric** | **Practice** | **Laboratory** | **Credit** | **ECTS** | **TYPE** |
| Spring 🗵Autumn □ | 2 | 1 | - | 2,5 | 5 | COMPULSORY ELECTIVE□🗵 |
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| **ASSESMENT CRITERIA** |
| **MID-TERM** | **ACTIVITY** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term | **1** | **50**  |
| 2 nd Mid- Term |   |   |
| Quiz |  |   |
| Homework |   |   |
| Project |   |   |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL** | Quiz | **1** | **50** |
| Homework |  |  |
| Project |  |  |
| Oral Exam |  |  |
| Other(……………….) |  |  |
| **MAKE-UP EXAM** | Oral | Written | Oral and Written | Multiple Choice |
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| **PREREQUISITE(S)** | - |
| **COURSE CONTENT** | Information about muscles on human body, their structures, localizations, functions. |
| **COURSE AIMS** | Give knowledge and provide the understanding of muscles on human body, their structures, localizations, functions. |
| **COURSE OBJECTIVES** | Get the knowledge about muscles on human body, Determination of the place of the structure on human body, understanding of the functional importance and the ability to provide its clinical integration. |
| **TEXTBOOK(S)** | -Arıncı, K, Elhan, A: Anatomi, Cilt 1-2, 2. Baskı, Güneş Kitabevi, Ankara, 1997.-Langman Jan: Medizinische Embryologie, Band: 1-3, Georg Thieme Verlag, Stuttgart-New York.-Moore, KL: Clinically Oriented Anatomy. 3th Edition, Williams and Wilkins, Baltimore, 1992.-Williams P.L.: Gray’s Anatomy, 38.edition, ELBS with Churchill Livingstone, Great Britain, 1995. |
| **REFERENCES** | -Netter F.H.:Atlas of Human Anatomy, Seventh Edition, Ciba-Geigy Corporation, 1994. -Putz R, Pabst R.: Sobotta İnsan Anatomisi (çeviri: K.Arıncı), Beta Basım Yayın Dağıtım A.Ş., İstanbul, 1993. |

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|  |  **COURSE SYLLABUS** |
| **WEEK** | **SUBJECTS/TOPICS** |
| 1 | General information about muscles I |
| 2 | General information about muscles II |
| 3 | Muscles of head |
| 4 | Muscles of neck |
| 5 | Muscles of back and suboccipital muscles |
| 6 | Muscles of thorax, diaphragma |
| 7 | Muscles of abdomen |
| 8 | MID-TERM EXAM |
| 9 | Muscles of pelvis and perineum |
| 10 | Shoulder muscles |
| 11 | Muscles of upper arm, forearm |
| 12 | Muscles of hand |
| 13 | Gluteal muscles |
| 14 | Muscles of thigh and leg  |
| 15 | Muscles of foot |
| 16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **1** | **2** | **3** |
| 1 | gather as well as apply knowledge of health sciences |  |  | **🗴** |
| 2 | ask scientific questions and form hypothesis |  |  | **🗴** |
| 3 | search and interpret scientific literature |  |  | **🗴** |
| 4 | design and conduct experiments as well as analyze and interpret the data |  | **🗴**  |  |
| 5 | learn how to use the experimental equipment effectively |  | **🗴** |  |
| 6 | function on multi-disciplinary teams |  |  | **🗴** |
| 7 | identify, formulate, and solve medical problems |  |  | **🗴**  |
| 8 | use computer effectively both in conducting the experiments and analyzing the data | **🗴** |  |  |
| 9 | understand the impact of experimental solutions on national and international sciences |  | **🗴** |  |
| 10 | use effective written and oral communication/presentation skills |  | **🗴**  |  |
| 11 | get an understanding of professional and ethical responsibility |  | **🗴** |  |
| 12 | get a recognition of the need for, and an ability to engage in lifelong learning |  |  | **🗴** |
| 13 | other (……………………………………….)  |  |  |  |
| 14 | other (……………………………………….) |  |  |  |

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| **Instructor Name:**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY | **Sign:****Date** |

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| **COURSE CODE:** | **521204213** | **DEPARTMENT: ANATOMY** |
| **COURSE NAME:** | ANATOMY OF THE PERIPHERAL CIRCULATORY SYSTEM |
| **INSTRUCTOR NAME**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY | **COURSE LANGUAGE****Turkish:** 🗵**English:** □ | **Course Catagory** |
| Technical | Medical | Other(……) |
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**COURSE LEVEL**

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| **PROPAEDEUTIC** | **M.Sc.** | **Ph.D.** | **COURSE of PROVINCE** |
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| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE of** |
| **Theoric** | **Practice** | **Laboratory** | **Credit** | **ECTS** | **TYPE** |
| Spring 🗵Autumn □ | 2 | 2 | - | 3 | 7,5 | COMPULSORY ELECTIVE□🗵 |
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| **ASSESMENT CRITERIA** |
| **MID-TERM** | **ACTIVITY** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term | **1** | **50**  |
| 2 nd Mid- Term |   |   |
| Quiz |  |   |
| Homework |   |   |
| Project |   |   |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL** | Quiz | **1** | **50** |
| Homework |  |  |
| Project |  |  |
| Oral Exam |  |  |
| Other(……………….) |  |  |
| **MAKE-UP EXAM** | Oral | Written | Oral and Written | Multiple Choice |
|  |  | 🗴 |  |
| **PREREQUISITE(S)** | - |
| **COURSE CONTENT** | Information about blood and lymphatic vessels, their localizations, branches, areas supplied by. |
| **COURSE AIMS** | Give knowledge and provide the understanding of blood and lymphatic vessels, their localizations, branches, areas |
| **COURSE OBJECTIVES** | Get the knowledge about blood and lymphatic vessels, their localizations, branches, areas supplied by,Determination of the place of the structure on human body, understanding of the functional importance and the ability to provide its clinical integration. |
| **TEXTBOOK(S)** | -Arıncı, K, Elhan, A: Anatomi, Cilt 1-2, 2. Baskı, Güneş Kitabevi, Ankara, 1997.-Langman Jan: Medizinische Embryologie, Band: 1-3, Georg Thieme Verlag, Stuttgart-New York.-Moore, KL: Clinically Oriented Anatomy. 3th Edition, Williams and Wilkins, Baltimore, 1992.-Williams P.L.: Gray’s Anatomy, 38.edition, ELBS with Churchill Livingstone, Great Britain, 1995. |
| **REFERENCES** | -Netter F.H.:Atlas of Human Anatomy, Seventh Edition, Ciba-Geigy Corporation, 1994. -Putz R, Pabst R.: Sobotta İnsan Anatomisi (çeviri: K.Arıncı), Beta Basım Yayın Dağıtım A.Ş., İstanbul, 1993. |

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|  |  **COURSE SYLLABUS** |
| **WEEK** | **SUBJECTS/TOPICS** |
| 1 | General information about cardiovascular system |
| 2 | General information about vessels |
| 3 | Arterial system, aorta and coronary arteries |
| 4 | Common carotid artery and its branches |
| 5 | Subclavian artery and its branches |
| 6 | Arteries of the trunk |
| 7 | Arteries of the lower limbs |
| 8 | MID-TERM EXAM |
| 9 | Venous system, cardiac veins |
| 10 | Veins of the head and neck  |
| 11 | Veins of the upper limbs |
| 12 | Veins of the trunk, hepatic portal system |
| 13 | Veins of the lower limbs |
| 14 | General information about lymphatic circulation, lymphatic vessels |
| 15 | Lymph nodes |
| 16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **1** | **2** | **3** |
| 1 | gather as well as apply knowledge of health sciences |  |  | **🗴** |
| 2 | ask scientific questions and form hypothesis |  |  | **🗴** |
| 3 | search and interpret scientific literature |  |  | **🗴** |
| 4 | design and conduct experiments as well as analyze and interpret the data |  | **🗴**  |  |
| 5 | learn how to use the experimental equipment effectively |  | **🗴** |  |
| 6 | function on multi-disciplinary teams |  |  | **🗴** |
| 7 | identify, formulate, and solve medical problems |  |  | **🗴**  |
| 8 | use computer effectively both in conducting the experiments and analyzing the data | **🗴** |  |  |
| 9 | understand the impact of experimental solutions on national and international sciences |  | **🗴** |  |
| 10 | use effective written and oral communication/presentation skills |  | **🗴**  |  |
| 11 | get an understanding of professional and ethical responsibility |  | **🗴** |  |
| 12 | get a recognition of the need for, and an ability to engage in lifelong learning |  |  | **🗴** |
| 13 | other (……………………………………….)  |  |  |  |
| 14 | other (……………………………………….) |  |  |  |

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| **Instructor Name:**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY | **Sign:****Date** |
| **COURSE CODE:** | **521206214** | **DEPARTMENT: ANATOMY** |
| **COURSE NAME:** | ANATOMY OF THE ENDOCRINE SYSTEM |
| **INSTRUCTOR NAME**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY | **COURSE LANGUAGE****Turkish:** 🗵**English:** □ | **Course Catagory** |
| Technical | Medical | Other(……) |
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**COURSE LEVEL**

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| **PROPAEDEUTIC** | **M.Sc.** | **Ph.D.** | **COURSE of PROVINCE** |
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| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE of** |
| **Theoric** | **Practice** | **Laboratory** | **Credit** | **ECTS** | **TYPE** |
| Spring 🗵Autumn □ | 2 | 1 | - | 2,5 | 5 | COMPULSORY ELECTIVE□🗵 |
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| **ASSESMENT CRITERIA** |
| **MID-TERM** | **ACTIVITY** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term | **1** | **50**  |
| 2 nd Mid- Term |   |   |
| Quiz |  |   |
| Homework |   |   |
| Project |   |   |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL** | Quiz | **1** | **50** |
| Homework |  |  |
| Project |  |  |
| Oral Exam |  |  |
| Other(……………….) |  |  |
| **MAKE-UP EXAM** | Oral | Written | Oral and Written | Multiple Choice |
|  |  | 🗴 |  |
| **PREREQUISITE(S)** |  |
| **COURSE CONTENT** | Information about endocrin glands (hypophysis, epiphysis, thyroid, parathyroid, surrenal glands, thymus, chromaffin system, paraganglia, paraaortic and carotid bodies) their localizations, functional and clinical importance |
| **COURSE AIMS** | Give knowledge and provide the understanding of endocrin glands, their localizations, functional and clinical importance |
| **COURSE OBJECTIVES** | Get the knowledge about endocrin glands, their localizations, functions,Determination of the place of the structure on human body, understanding of the functional importance and the ability to provide its clinical integration. |
| **TEXTBOOK(S)** | -Arıncı, K, Elhan, A: Anatomi, Cilt 1-2, 2. Baskı, Güneş Kitabevi, Ankara, 1997.-Langman Jan: Medizinische Embryologie, Band: 1-3, Georg Thieme Verlag, Stuttgart-New York.-Moore, KL: Clinically Oriented Anatomy. 3th Edition, Williams and Wilkins, Baltimore, 1992.-Williams P.L.: Gray’s Anatomy, 38.edition, ELBS with Churchill Livingstone, Great Britain, 1995. |
| **REFERENCES** | -Netter F.H.:Atlas of Human Anatomy, Seventh Edition, Ciba-Geigy Corporation, 1994. -Putz R, Pabst R.: Sobotta İnsan Anatomisi (çeviri: K.Arıncı), Beta Basım Yayın Dağıtım A.Ş., İstanbul, 1993. |

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|  |  **COURSE SYLLABUS** |
| **WEEK** | **SUBJECTS/TOPICS** |
| 1 | General information about endocrin system |
| 2 | Hypothalamus ve its situation in endocrin system  |
| 3 | Neurohypophysis |
| 4 | Adenohypophysis |
| 5 | Gl. pinealis |
| 6 | Gl.thyroidea  |
| 7 | Gll.parathyroideae |
| 8 | MID-TERM EXAM |
| 9 | Thymus |
| 10 | Gll.suprarenales |
| 11 | Chromaffin system, diffuse neuroendocrin system |
| 12 | Paraganglia, paraaortic bodies |
| 13 | Glomus caroticum, jugulare ve coccygeum |
| 14 | Endocrin function of pancreas, testis, ovarium  |
| 15 | Endocrin function of plasenta, kidneys, hearth |
| 16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **1** | **2** | **3** |
| 1 | gather as well as apply knowledge of health sciences |  |  | **🗴** |
| 2 | ask scientific questions and form hypothesis |  |  | **🗴** |
| 3 | search and interpret scientific literature |  |  | **🗴** |
| 4 | design and conduct experiments as well as analyze and interpret the data |  | **🗴**  |  |
| 5 | learn how to use the experimental equipment effectively |  | **🗴** |  |
| 6 | function on multi-disciplinary teams |  |  | **🗴** |
| 7 | identify, formulate, and solve medical problems |  |  | **🗴**  |
| 8 | use computer effectively both in conducting the experiments and analyzing the data | **🗴** |  |  |
| 9 | understand the impact of experimental solutions on national and international sciences |  | **🗴** |  |
| 10 | use effective written and oral communication/presentation skills |  | **🗴**  |  |
| 11 | get an understanding of professional and ethical responsibility |  | **🗴** |  |
| 12 | get a recognition of the need for, and an ability to engage in lifelong learning |  |  | **🗴** |
| 13 | other (……………………………………….)  |  |  |  |
| 14 | other (……………………………………….) |  |  |  |

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| **Instructor Name:**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARAssos.Prof.Dr. Gül GÜVENDr. Öğr. Üyesi HAKAN AY | **Sign:****Date** |

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| **COURSE CODE:** **521204215** |  | **DEPARTMENT: ANATOMY** |
| **COURSE NAME:** |  | **Anatomy of the Head and Neck** |
| **INSTRUCTORS NAME**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARDr. Öğr. Üyesi HAKAN AY | **COURSE LANGUAGE****Turkish:** 🗵**English:** □ | **Course Catagory** |
| Technical | Medical | Other(……) |
|  |  | **🗴** |  |

**COURSE LEVEL**

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| **PROPAEDEUTIC** | **M.Sc.** | **Ph.D.** | **COURSE of PROVINCE** |
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| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE of** |
| **Theoric** | **Practice** | **Laboratory** | **Credit** | **ECTS** | **TYPE** |
| Spring 🗵Autumn □ | 2 | 2  | - | 3 | 7,5 | COMPULSORY ELECTIVE🗵□ |
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| **ASSESMENT CRITERIA** |
| **MID-TERM** | **ACTIVITY** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term | **1** | **50**  |
| 2 nd Mid- Term |   |   |
| Quiz |  |   |
| Homework |   |   |
| Project |   |   |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL** | Quiz | **1** | **50** |
| Homework |  |  |
| Project |  |  |
| Oral Exam |  |  |
| Other(……………….) |  |  |
| **MAKE-UP EXAM** | Oral | Written | Oral and Written | Multiple Choice |
|  |  | 🗴 |  |
| **PREREQUISITE(S)** |  |
| **COURSE CONTENT** | In this course, it is given briefly the basic anatomic knowledge about brain and the bones, joints, muscles, vessels, cranial nerves of the head and neck,  |
| **COURSE AIMS** | Give the anatomical information about the head and neck and make clear the functional importance. |
| **COURSE OBJECTIVES** | Determination of anatomic points of the organs of the head and neck and their place on human body system, understanding of the functional importance, the ability to provide the clinical integration (relations) of the systems. |
| **TEXTBOOK(S)** | -Arıncı, K, Elhan, A: Anatomi, Cilt 1-2, 2. Baskı, Güneş Kitabevi, Ankara, 1997.-Langman Jan: Medizinische Embryologie, Band: 1-3, Georg Thieme Verlag, Stuttgart-New York.-Moore, KL: Clinically Oriented Anatomy. 3th Edition, Williams and Wilkins, Baltimore, 1992.-Williams P.L.: Gray’s Anatomy, 38.edition, ELBS with Churchill Livingstone, Great Britain, 1995. |
| **REFERENCES** | -Netter F.H.:Atlas of Human Anatomy, Seventh Edition, Ciba-Geigy Corporation, 1994. -Putz R, Pabst R.: Sobotta İnsan Anatomisi (çeviri: K.Arıncı), Beta Basım Yayın Dağıtım A.Ş., İstanbul, 1993. |

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|  |  **COURSE SYLLABUS** |
| **WEEK** | **SUBJECTS/TOPICS** |
| 1 | Cranial bones and cervical vertebra’s. |
| 2 | Joints of the cranial and cervical bones. |
| 3 | Muscles of head |
| 4 | Muscles of neck |
| 5 | Triangles in the neck |
| 6 | Anatomy of the nose and paranasal sinuses |
| 7 | Anatomy of the mouth, pharynx and larinx. |
| 8 | MID-TERM EXAM |
| 9 | Anatomy of the brain stem. |
| 10 | Anatomy of the diencephalon. |
| 11 | Anatomy of the telencephalon |
| 12 | Cranial nerves – I  |
| 13 | Cranial nerves – II  |
| 14 | Vessels of the head and neck |
| 15 | Vessels of the brain |
| 16 | FINAL EXAM |

**PROGRAM QUTCOMES**

Place choose never(1), few(2) or many(3) regarding your course

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NO** |  | **1** | **2** | **3** |
| 1 | gather as well as apply knowledge of health sciences |  |  | **🗴** |
| 2 | ask scientific questions and form hypothesis |  |  | **🗴** |
| 3 | search and interpret scientific literature |  |  | **🗴** |
| 4 | design and conduct experiments as well as analyze and interpret the data | **🗴**  |  |  |
| 5 | learn how to use the experimental equipment effectively | **🗴** |  |  |
| 6 | function on multi-disciplinary teams |  | **🗴** |  |
| 7 | identify, formulate, and solve medical problems |  | **🗴**  |  |
| 8 | use computer effectively both in conducting the experiments and analyzing the data | **🗴** |  |  |
| 9 | understand the impact of experimental solutions on national and international sciences | **🗴** |  |  |
| 10 | use effective written and oral communication/presentation skills |  | **🗴**  |  |
| 11 | get an understanding of professional and ethical responsibility |  | **🗴** |  |
| 12 | get a recognition of the need for, and an ability to engage in lifelong learning |  |  | **🗴** |
| 13 | other (……………………………………….)  |  |  |  |
| 14 | other (……………………………………….) |  |  |  |

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| **Instructor Name:**Prof.Dr. Ferruh YÜCEL, Prof.Dr. Nedim ÜNAL,Prof.Dr. Hilmi ÖZDEN, Prof.Dr. Emel ULUPINAR, Prof.Dr. Yüksel AYDARDr. Öğr. Üyesi HAKAN AY | **Sign:****Date** |