**MEDICAL IMAGING TECHNIQUES PROGRAM**

**COURSE INFORMATION PACKAGE**

|  |  |  |  |  |  |  |
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| 1. **YEAR** | | | | | | |
| **CODE** | **LESSONS** | ***ECTS*** | ***C/E*** | ***T+P+L*** | ***C/E*** | ***LANGUAGE*** |
| FALL SEMESTER | | | | | | |
| 211411192 | [ANATOMY](#ANATOMY) | 2 | C | 2-0-0 | COMPULSORY | TURKISH |
| 211411193 | [PHYSIOLOGY](#PHYSIOLOGY) | 2 | C | 2-0-0 | COMPULSORY | TURKISH |
| 211411189 | [PHYSICS](#PHYSICS) | 4 | C | 3-0-0 | COMPULSORY | TURKISH |
| 211411186 | [MEDICAL RADIOLOGICAL TERMINOLOGY](#MEDICALRADIOLOGICALTERMINOLOGY) | 3 | C | 2-0-0 | COMPULSORY | TURKISH |
| 211411194 | [RADIATION SAFETY AND PROTECTION](#RADIATIONSAFETYANDPROTECTION) | 3 | C | 2-0-0 | COMPULSORY | TURKISH |
| 211411187 | [MEDICAL IMAGING I](#MEDICALIMAGINGI) | 3 | C | 2-0-0 | COMPULSORY | TURKISH |
| 211411195 | [BASIC MEDICAL INTERVENTIONS](#BASICMEDICALINTERVENTIONS) | 4 | C | 3-2-0 | COMPULSORY | TURKISH |
| 211411176 | [TURKISH LANGUAGE I](#TURKISHLANGUAGEI) | 2 | C | 2-0-0 | COMPULSORY | TURKISH |
| 211411196 | [ENGLISH I](#ENGLISHI) | 2 | C | 2-0-0 | COMPULSORY | ENGLISH |
|  | ELECTIVE I | 4 | E | 2-0-0 | ELECTIVE | TURKISH |
|  | SOCIAL ELECTIVE I | 1 | SE | 1-0-0 | SOCIAL ELECTIVE | TURKISH |
| **Fall Term Total :** | | **30** |  |  |  |  |
| SPRING SEMESTER | | | | | | |
| **CODE** | **LESSONS** | ***ECTS*** | ***C/E*** | ***T+P+L*** | ***C/E*** | ***LANGUAGE*** |
| 211412159 | [USE OF BASIC KNOWLEDGE TECHNOLOGIES](#USEOFBASICKNOWLEDGETECHNOLOGIES) | 3 | C | 1-2-0 | COMPULSORY | TURKISH |
| 211412160 | [RADIOLOGICAL ANATOMY](#RADIOLOGICALANATOMY) | 2 | C | 2-0-0 | COMPULSORY | TURKISH |
| 211412161 | [MEDICAL IMAGING II](#MEDICALIMAGINGII) | 4 | C | 2-4-0 | COMPULSORY | TURKISH |
| 211412162 | [RADIATION PHYSICS](#RADIATIONPHYSICS) | 4 | C | 3-0-0 | COMPULSORY | TURKISH |
| 211412163 | [PROFESSIONAL ETHICS](#PROFESSIONALETHICS) | 2 | C | 2-0-0 | COMPULSORY | TURKISH |
| 211412101 | [TURKISH LANGUAGE II](#TURKISHLANGUAGEII) | 2 | C | 2-0-0 | COMPULSORY | TURKISH |
| 211412164 | [ENGLISH II](#ENGLISHII) | 2 | C | 2-0-0 | COMPULSORY | ENGLISH |
|  | ELECTIVE II | 4 | E | 2-0-0 | ELECTIVE | TURKISH |
|  | SOCIAL ELECTIVE II | 1 | SE | 1-0-0 | SOCIAL ELECTIVE | TURKISH |
| 211412165 | [INTERNSHIP](#INTERNSHIP)\* | 6 | C | 0-2-0 | COMPULSORY | TURKISH |
| **Spring Term Total:** | | 30 |  |  |  |  |
| **Year Total** | | 60 |  |  |  |  |

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| 1. **YEAR** | | | | | | |
| **CODE** | **LESSONS** | ***ECTS*** | ***C/E*** | ***T+P+L*** | ***C/E*** | ***LANGUAGE*** |
| FALL SEMESTER | | | | | | |
| 211413257 | [PHARMACOLOGY OF RADIOCONTRAST DRUGS](#PHARMACOLOGYOFRADIOCONTRASTDRUGS) | 3 | C | 2-0-0 | COMPULSORY | TURKISH |
| 211413259 | [KNOWLEDGE OF DISEASES](#KNOWLEDGEOFDISEASE) | 3 | C | 2-0-0 | COMPULSORY | TURKISH |
| 211413260 | [RADIOLOGICAL IMAGING PHYSICS I](#RADIOLOGICALIMAGINGPHYSICSI) | 6 | C | 2-4-0 | COMPULSORY | TURKISH |
| 211413261 | [MEDICAL IMAGING III](#MEDICALIMAGINGIII) | 4 | C | 2-4-0 | COMPULSORY | TURKISH |
| 211413262 | [ATATÜRK’S PRINCIPLES AND HISTORY OF REVOLUTION I](#ATATÜRKSPRINCIPLESANDHISTOROFREVO) | 2 | C | 2-0-0 | COMPULSORY | TURKISH |
|  | ELECTIVE III | 4 | E | 2-0-0 | ELECTIVE | TURKISH |
|  | ELECTIVE III | 4 | E | 2-0-0 | ELECTIVE | TURKISH |
|  | ELECTIVE III | 4 | E | 2-0-0 | ELECTIVE | TURKISH |
| **Fall Term Total:** | | 30 |  |  |  |  |
| SPRING SEMESTER | | | | | | |
| **CODE** | **LESSONS** | ***ECTS*** | ***C/E*** | ***T+P+L*** | ***C/E*** | ***LANGUAGE*** |
| 211414243 | [RADIOTHERAPY](#RADIOTHERAPY) | 6 | C | 2-4-0 | COMPULSORY | TURKISH |
| 211414244 | [NUCLEAR MEDICINE](#NUCLEARMEDICINE) | 6 | C | 2-4-0 | COMPULSORY | TURKISH |
| 211414245 | [RADIOLOGICAL IMAGING PHYSICS II](#RADIOLOGICALIMAGINGPHYSICSII) | 6 | C | 2-4-0 | COMPULSORY | TURKISH |
| 211414246 | [HEALTH SERVICE MANAGEMENT](#HEALTHCAREMANAGEMENT) | 2 | C | 2-0-0 | COMPULSORY | TURKISH |
| 211414247 | [ATATÜRK'S PRINCIPLES AND HISTORY OF REVOLUTION II](#ATATÜRKSPRINCIPLESANDHISTORYOFREVO) | 2 | C | 2-0-0 | COMPULSORY | TURKISH |
|  | ELECTIVE IV | 4 | E | 2-0-0 | ELECTIVE | TURKISH |
|  | ELECTIVE IV | 4 | E | 2-0-0 | ELECTIVE | TURKISH |
| **Spring Term Total:** | | 30 |  |  |  |  |
| **Year Total:** | | 60 |  |  |  |  |

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| **ELECTIVE COURSES** | | | | | | |
| **ELECTIVE I** | **LESSONS** | ***ECTS*** | ***C/E*** | ***T+P+L*** | ***C/E*** | ***LANGUAGE*** |
| 211411197 | [MEDICAL BIOLOGY AND GENETICS](#MEDICALBIOLOGYANDGENETICS) | 4 | E | 2-0-0 | ELECTIVE | TURKISH |
| 211411198 | [INTRODUCTION TO PSYCHOLOGY](#INTRODUCTIONTOPSYCHOLOGY) | 4 | E | 2-0-0 | ELECTIVE | TURKISH |
| 211411199 | [BIOPHYSICS](#BIOPHYSICS) | 4 | E | 2-0-0 | ELECTIVE | TURKISH |
| **ELECTIVE II** | **LESSONS** | ***ECTS*** | ***C/E*** | ***T+P+L*** | ***C/E*** | ***LANGUAGE*** |
| 211412166 | [ADVANCED PHYSICS](#ADVANCEDPHYSICS) | 4 | E | 2-0-0 | ELECTIVE | TURKISH |
| 211412167 | [QUALITY MANAGEMENT IN HEALTH INSTITUTIONS](#QUALITYMANAGEMENTINHEALTHINSTITUTION) | 4 | E | 2-0-0 | ELECTIVE | TURKISH |
| 211412168 | [GENERAL CHEMISTRY](#GENERALCHEMISTRY) | 4 | E | 2-0-0 | ELECTIVE | TURKISH |
| **ELECTIVE III** | **LESSONS** | ***ECTS*** | ***C/E*** | ***T+P+L*** | ***C/E*** | ***LANGUAGE*** |
| 211413263 | [RESEARCH PROJECT](#RESEARCHPROJECT) | 4 | E | 2-0-0 | ELECTIVE | TURKISH |
| 211413264 | [TRADITIONAL AND COMPLEMENTARY MEDICINE PRACTICES](#TRADITIONALANDCOMPLEMENTARYMEDICINEP) | 4 | E | 2-0-0 | ELECTIVE | TURKISH |
| 211413265 | [VOCATIONAL ENGLISH I](#VOCATIONALENGLISHI) | 4 | E | 2-0-0 | ELECTIVE | ENGLISH |
| 211413266 | [WORKING OF DISABLE PEOPLE](#WORKINGOFDISABLEPEOPLE) | 4 | E | 2-0-0 | ELECTIVE | TURKISH |
| **ELECTIVE IV** | **LESSONS** | ***ECTS*** | ***C/E*** | ***T+P+L*** | ***C/E*** | ***LANGUAGE*** |
| 211414248 | [VOCATIONAL ENGLISH II](#VOCATIONALENGLISHII) | 4 | E | 2-0-0 | ELECTIVE | ENGLISH |
| 211414249 | [ENVIRONMENTAL HEALTH](#ENVIRONMENTHEALTH) | 4 | E | 2-0-0 | ELECTIVE | TURKISH |
| 211414250 | [MATHEMATICS](#MATHEMATICS) | 4 | E | 2-0-0 | ELECTIVE | TURKISH |

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| **SOCIAL ELECTIVES** | | | | | | |
| **SOCIAL ELECTIVE I** | **LESSONS** | ***ECTS*** | ***C/E*** | ***T+P+L*** | ***C/E*** | ***LANGUAGE*** |
| 211411100 | [PHYSICAL EDUCATION I](#PHYSICALEDUCATIONI) | 1 | SE | 1-0-0 | SOCIAL ELECTIVE | TURKISH |
| 211011110 | [OCCUPATIONAL HEALTH AND SAFETY I](#OCCUPATIONALHEALTHANDSAFETYI) | 1 | SE | 1-0-0 | SOCIAL ELECTIVE | TURKISH |
| **SOCIAL ELECTIVE II** | **LESSONS** | ***ECTS*** | ***C/E*** | ***T+P+L*** | ***C/E*** | ***LANGUAGE*** |
| 211412158 | [FIRST AID](#FIRSTAID) | 1 | SE | 1-0-0 | SOCIAL ELECTIVE | TURKISH |
| 211412100 | [PHYSICAL EDUCATION II](#PHYSICALEDUCATIONII) | 1 | SE | 1-0-0 | SOCIAL ELECTIVE | TURKISH |
| 211012113 | [OCCUPATIONAL HEALTH AND SAFETY II](#OCCUPATIONALHEALTHANDSAFETYII) | 1 | SE | 1-0-0 | SOCIAL ELECTIVE | TURKISH |

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| https://ogu.edu.tr/files/duyuru/9ff77656-8e6a-4c44-98b9-5f236a699de2/ESOG%C3%9C_Son_logo.jpg | **ESOGU Vocational School of Health Services**  **Department of Medical Services and Techniques**  **Medical Imaging Techniques Program**  **Course Information Form** |

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| **SEMESTER** | FALL |

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| **COURSE CODE** | 211411192 | **COURSE NAME** | ANATOMY |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | | |
| **Theory** | | **Practice** | **Laboratory** | | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** | |
| 1 | 2 | | 0 | 0 | | | 2 | 2 | COMPULSORY (X) ELECTIVE ( ) | | | TURKISH | |
| **COURSE CATAGORY** | | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** | | |
|  | | X | | | |  | | | | |  | | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | | **Evaluation Type** | | | | | **Quantity** | | | **%** |
| 1st Mid-Term | | | | | 1 | | | 40 |
| 2nd Mid-Term | | | | |  | | |  |
| Quiz | | | | |  | | |  |
| Homework | | | | |  | | |  |
| Project | | | | |  | | |  |
| Report | | | | |  | | |  |
| Others (………) | | | | |  | | |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | | | 60 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | | | |
| **COURSE DESCRIPTION** | | | | | The lesson contains the importance of the anatomy science, its sub-branches, anatomy terms and concepts, organs and the systems. The lesson contains; the systems, locomotors systems ,cardiovascular system, respiratory system, digestive system, nervous system, uriner system, genital system, endocrine system and organ of 5 sense. These teorical anatomic information are learned by the help of the dictionaries and ( anatomy ) atlas.and maquettes | | | | | | | | |
| **COURSE OBJECTIVES** | | | | | To give information about human body is structure. To use the Latin terminologies that are internationally common while learning the medical terms and concepts . | | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | | | The lesson’s target is to give information to the health personnel that will work on medicine care. | | | | | | | | |
| **COURSE OUTCOMES** | | | | | Skill to apply the anatomic knowledges, Skill to analyze the datum.  Skill to have active writen / oral comminication., Skill to work in group  To realize the profesional responsibility, Skill to use school material which are selected according to the topic. | | | | | | | | |
| **TEXTBOOK** | | | | | Sobotta,Atlas of Human Anatomi 2019, Anatomy for Health Sciences 2020 | | | | | | | | |
| **OTHER REFERENCES** | | | | | S.Öz ,A.Ortadeveci ,H.Özden,G.Ay,C.Bozdoğan,F.Yildiz,M.Kaya,Ö.Tuğ, Sağlık Bilimleri İçin Tıbbi ve Mesleki Terminoloji ,2022 S.ÖZ, Glossary of Anatomy Terms 2018 İ.DÖŞEMECİ, Glossary of Medical Terms 2012 | | | | | | | | |
| **TOOLS AND MATERIALS REQUIRED IN THE COURSE** | | | | | Barcovision – power point presentation ,other education maquettes,atlas of human anatomy,computer, UZEMOYS | | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | The importance of the anatomy and its subbranches, Anatomic terms and concepts |
| 2 | Locomotor system- bones-joints |
| 3 | Locomotor system- skeletal muscles |
| 4 | Cardio-vasculer system- heart |
| 5 | Cardio-vasculer system-vessels |
| 6 | Respiratory system |
| 7 | Digestive system |
| 8 | Uriner System |
| 9 | Central nervous System |
| 10 | Peripheral nervous system |
| 11 | Woman’s genital organs |
| 12 | Man’s genital organs |
| 13 | Endocrine system |
| 14 | Sense organs |
| 15,16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques | **x** |  |  |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques |  | **x** |  |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems |  | **x** |  |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values |  | **x** |  |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication |  |  | **x** |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques |  | **x** |  |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach |  | **x** |  |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning |  |  | **x** |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes |  | **x** |  |
| 10 | Using and communicating a foreign language at a basic level |  | **x** |  |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules |  | **x** |  |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field |  | **x** |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**

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| https://ogu.edu.tr/files/duyuru/9ff77656-8e6a-4c44-98b9-5f236a699de2/ESOG%C3%9C_Son_logo.jpg | **ESOGU Vocational School of Health Services**  **Department of Medical Services and Techniques**  **Medical Imaging Techniques Program**  **Course Information Form** |

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| **SEMESTER** | FALL |

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| **COURSE CODE** | 211411193 | **COURSE NAME** | PHYSIOLOGY |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | | |
| **Theory** | | **Practice** | **Laboratory** | | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** | |
| 1 | 2 | | 0 | 0 | | | 2 | 2 | COMPULSORY (X) ELECTIVE ( ) | | | TURKISH | |
| **COURSE CATAGORY** | | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** | | |
|  | | X | | | |  | | | | |  | | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | | **Evaluation Type** | | | | | **Quantity** | | | **%** |
| 1st Mid-Term | | | | | 1 | | | 40 |
| 2nd Mid-Term | | | | |  | | |  |
| Quiz | | | | |  | | |  |
| Homework | | | | |  | | |  |
| Project | | | | |  | | |  |
| Report | | | | |  | | |  |
| Others (………) | | | | |  | | |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | | | 60 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | | | |
| **COURSE DESCRIPTION** | | | | | Definition of physiology terminology, definition of basic physiological concepts, explanation of functional properties of organs and systems | | | | | | | | |
| **COURSE OBJECTIVES** | | | | | The students who take the course should comprehend the vital relationships of the cells, tissues, organs and systems that make up the human body, have knowledge about the functions and basic working mechanisms of these systems, and be able to use this knowledge by blending it with other vocational courses. | | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | | | 1. To have the basic knowledge necessary to work in the pathology laboratory.  2. To have the basic skills necessary to work in the pathology laboratory.  3. To have knowledge about the theoretical foundations of pathology. | | | | | | | | |
| **COURSE OUTCOMES** | | | | | At the end of the courses, the student;  1-Defines physiology terminology,  2-Defines basic physiological concepts,  3- Comprehend the vital relations of cells, tissues, organs and systems with each other,  4-Understand the functions of body systems,  5- Gains knowledge about the basic working mechanisms of the body. | | | | | | | | |
| **TEXTBOOK** | | | | | 1- Kus G., İnsan Beden Yapısı ve Fizyolojisi, Anadolu Üniversitesi  https://yokdersleri.yok.gov.tr/#ders | | | | | | | | |
| **OTHER REFERENCES** | | | | | 1**-**Yaman M.O., Fizyoloji, İstanbul Üniversitesi  https://yokdersleri.yok.gov.tr/#ders | | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Computer, projection, UZEMOYS. | | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Physiology, Pathology, Homeostasis |
| 2 | Cell Organization |
| 3 | Substance Transport |
| 4 | Bone Tissue and Its Functions |
| 5 | Electrical Properties of Cell Membrane |
| 6 | Muscle Physiology |
| 7 | Nervous System Physiology |
| 8 | Circulatory Physiology |
| 9 | Blood Physiology |
| 10 | Digestive System Physiology |
| 11 | Excretory System Physiology |
| 12 | Hormonal System Physiology |
| 13 | Reproductive System Physiology |
| 14 | An overview |
| 15,16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques | **x** |  |  |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques |  |  | **x** |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems |  | **x** |  |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values |  |  | **x** |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication |  | **x** |  |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques |  | **x** |  |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach |  | **x** |  |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning |  | **x** |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes |  | **x** |  |
| 10 | Using and communicating a foreign language at a basic level |  | **x** |  |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules |  | **x** |  |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field |  | **x** |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**

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| logoo | **ESOGU Vocational School of Health Services**  **Department of Medical Services and Techniques**  **Medical Imaging Techniques Program**  **Course Information Form** |

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| **SEMESTER** | FALL |

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| **COURSE CODE** | 211411189 | **COURSE NAME** | PHYSICS |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | |
| **Theory** | | **Practice** | **Laboratory** | | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** |
| I | 3 | | 0 | 0 | | | 3 | 4 | COMPULSORY (**X** ) ELECTIVE ( ) | | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** | |
|  | | x | | | |  | | | | |  | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | | **Evaluation Type** | | | | | **Quantity** | | **%** |
| 1st Mid-Term | | | | | 1 | | 40 |
| 2nd Mid-Term | | | | |  | |  |
| Quiz | | | | |  | |  |
| Homework | | | | |  | |  |
| Project | | | | |  | |  |
| Report | | | | |  | |  |
| Others (………) | | | | |  | |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | | 60 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | | |
| **COURSE DESCRIPTION** | | | | | Measuring, vectors, kinematics, motion on earth, dynamics, motion of objects under force, work, power, energy, impulse and momentum rotational kinematics, rotational dynamics and mathematical applications | | | | | | | |
| **COURSE OBJECTIVES** | | | | | The main objective of the course is to teach the basic concepts and mathematical applications of physics. | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | | | To learn the basic physics concepts they will need to understand the various events and situations they will encounter in medical imaging applications. | | | | | | | |
| **COURSE OUTCOMES** | | | | | 1. Up-to-date information, software, theoretical and  have applied knowledge.  2. Apply the theoretical knowledge gained in the field of physics.  3. Concepts and thoughts in the field using scientific methods  analyze, interpret, evaluate and analyze data.  it does. | | | | | | | |
| **TEXTBOOK** | | | | | Fiziğin Temelleri 1. Kitap (2017). Jearl Walker , Robert Resnick , David Halliday. Palme Yayınevi - Akademik Kitaplar  Fizik I (Teknolojinin Bilimsel İlkeleri). (2018). Şadiye Çakmak. Akademisyen Kitabevi | | | | | | | |
| **OTHER REFERENCES** | | | | | Fizik İlkeleri ve Pratik Cilt 1. (2015).Eric Mazur. Nobel Tıp Kitabevi. | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Barkovizyon - power point sunum, Bilgisayar, UZEMOYS | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Ability to measure |
| 2 | Learning vectors |
| 3 | Learning kinematics |
| 4 | Understanding motion on earth, ability to express motion on earth mathematically |
| 5 | Learning dynamics |
| 6 | Understanding the motion of objects under the influence of force |
| 7 | Learning the concepts of work, power and energy |
| 8 | To be able to express the concepts of work, power and energy mathematically |
| 9 | Learning the concepts of Impulse and momentum |
| 10 | To be able to express the concepts of impulse and momentum mathematically |
| 11 | Learning rotation kinematics |
| 12 | Learning rotation dynamics |
| 13 | To be able to express the rotational motion mathematically |
| 14 | Understanding and mathematically expressing the equilibrium of solid bodies |
| 15-16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques |  | **x** |  |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques |  | **x** |  |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems |  | **x** |  |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values |  |  | **x** |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication |  |  | **x** |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques |  | **x** |  |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach |  | **x** |  |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning |  |  | **x** |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes |  |  | **x** |
| 10 | Using and communicating a foreign language at a basic level |  | **x** |  |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules |  | **x** |  |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field |  | **x** |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**

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| logoo | **ESOGU Vocational School of Health Services**  **Department of Medical Services and Techniques**  **Medical Imaging Techniques Program**  **Course Information Form** |

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| **SEMESTER** | FALL |

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| **COURSE CODE** | 211411186 | **COURSE NAME** | MEDICAL RADIOLOGICAL TERMINOLOGY |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | |
| **Theory** | | **Practice** | **Laboratory** | | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** |
| 1 | 2 | | 0 | 0 | | | 2 | 3 | COMPULSORY ( **X**) ELECTIVE ( ) | | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** | |
| x | |  | | | |  | | | | |  | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | |
| **MID-TERM** | | | | | **Evaluation Type** | | | | | **Quantity** | | **%** |
| 1st Mid-Term | | | | | 1 | | 40 |
| 2nd Mid-Term | | | | |  | |  |
| Quiz | | | | |  | |  |
| Homework | | | | |  | |  |
| Project | | | | |  | |  |
| Report | | | | |  | |  |
| Others (………) | | | | |  | |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | | 60 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | | |
| **COURSE DESCRIPTION** | | | | | Introduction to medical terminology, pronunciation of letters, types of medical terms root, prefix, suffix, singular, plural, reduction and abbreviation in medical terms, terms specific to the systems that make up the human body, radiology and radiological process terms, nuclear medicine and radiotherapy terms | | | | | | | |
| **COURSE OBJECTIVES** | | | | | It is the acquisition of the necessary knowledge, skills and competencies for the correct pronunciation, writing and use of general medical and radiological terms. | | | | | | | |
| **ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION** | | | | | By understanding the principles of medical terminology used in health sciences, acquiring basic professional terminology knowledge, creating a common language that will facilitate communication with health professionals. | | | | | | | |
| **COURSE OUTCOMES** | | | | | 1.Gaining the ability to analyze the structure of medical terms terminologically 2.Learning the meaning and structures of medical terms 3. Providing professional communication by learning the medical terms specific to the systems that make up the human body and radiology technician. | | | | | | | |
| **TEXTBOOK** | | | | | Sağlık Bilimleri İçin Tıbbi Terminoloji. (2022). Ed.Pehlevan, F., Mutuş.R. Nobel Tıp K. Özdemir, İ. (2015). Tıbbi ve Radyolojik Terminoloji. Hiperlink Yayınları, İstanbul. Kaya, T. (2020). Temel Radyoloji Tekniği, Eskişehir: Nisan Türk Tıbbi Onkoloji Derneği. Onkoloji ve Radyoterapi Terimler Sözlüğü, https://www.kanser.org/saglik/toplum/?action=sozluk-liste&harf= Adapınar, B. (2014). Radyoloji ve Nükleer Tıp Terimleri, Didem Arslantaş (Ed.), Tıbbi Terminoloji içinde, (s.148-178) T.C. Anadolu Üniversitesi Yayını No: 2525 | | | | | | | |
| **OTHER REFERENCES** | | | | | Yücel, A. (2018). Tıbbi Görüntüleme Cihazları, Mustafa Solak (Ed.), Tıbbi Cihaz ve Malzemeler içinde, (s.76-102), T.C. Anadolu Üniversitesi Yayını No: 3219 | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Barcovision, computer, ESUZEM-OYS | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Introduction to medical terminology, pronunciation of vowels and consonants, types of medical terms |
| 2 | Roots, prefixes, suffixes that make up medical terms |
| 3 | Singular and plural cases, diminutive and abbreviation in medical terms |
| 4 | Terms of motion system |
| 5 | Terms of nervous system and psychiatric diseases |
| 6 | Terms pertaining to the blood and immune system |
| 7 | Terms of the circulatory system, terms of the cardiovascular system |
| 8 | Respiratory and digestive system terms |
| 9 | Terms of the excretory system, terms of female and male reproductive organs |
| 10 | Five sense organs, terms related to the endocrine system |
| 11 | Radiology terms |
| 12 | Systems-specific radiological processing terms |
| 13 | Nuclear medicine terms |
| 14 | Radiotherapy terms |
| 15-16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques | **x** |  |  |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques | **x** |  |  |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems | **x** |  |  |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values | **x** |  |  |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication | **x** |  |  |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques | **x** |  |  |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach | **x** |  |  |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning |  | **x** |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes | **x** |  |  |
| 10 | Using and communicating a foreign language at a basic level |  | **x** |  |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules | **x** |  |  |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field | **x** |  |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**

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| https://ogu.edu.tr/files/duyuru/9ff77656-8e6a-4c44-98b9-5f236a699de2/ESOG%C3%9C_Son_logo.jpg | **ESOGU Vocational School of Health Services**  **Department of Medical Services and Techniques**  **Medical Imaging Techniques Program**  **Course Information Form** |

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| **SEMESTER** | FALL |

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| **COURSE CODE** | 211411194 | **COURSE NAME** | RADIATION SAFETY AND PROTECTION |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | | |
| **Theory** | | **Practice** | | **Laboratory** | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** | |
| 1 | 2 | | 0 | | 0 | | 2 | 3 | COMPULSORY (X) ELECTIVE ( ) | | | TURKISH | |
| **COURSE CATAGORY** | | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** | | |
| x | |  | | | |  | | | | |  | | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | **Evaluation Type** | | | | | | **Quantity** | | | **%** |
| 1st Mid-Term | | | | | | 1 | | | 40 |
| 2nd Mid-Term | | | | | |  | | |  |
| Quiz | | | | | |  | | |  |
| Homework | | | | | |  | | |  |
| Project | | | | | |  | | |  |
| Report | | | | | |  | | |  |
| Others (………) | | | | | |  | | |  |
| **FINAL EXAM** | | | |  | | | | | | 1 | | | 60 |
| **PREREQUIEITE(S)** | | | | None | | | | | | | | | |
| **COURSE DESCRIPTION** | | | | Radiation sources, units, fields, biological and deterministic effects of radiation, radiology, nuclear medicine, employee and patient safety in radiotherapy, personal dosimeters, radiation safety of devices | | | | | | | | | |
| **COURSE OBJECTIVES** | | | | In this course, learning how to understand and apply the harmful effects of radiation on human health and the environment and radiation protection methods | | | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | | Being able to distinguish the structure of the radiology department Ensuring radiation safety Being able to take part in emergency situations | | | | | | | | | |
| **COURSE OUTCOMES** | | | | Will be able to explain the damage of radiation to human health and environment.  Will be able to explain radiation dose units  Will be able to discuss how radiation interacts with matter  Will be able to classify the types of dosimeters.  Will be able to define how to behave in radiation accidents | | | | | | | | | |
| **TEXTBOOK** | | | | Radyasyon Sağlık Riskleri ve Tanısal İncelemelerde Korunma. (2017). Doğan Bor. Dünya Kitabevi. Radyasyon Güvenliği El Kitabı. (2021). Ed. Mehmet Ali Nazlı Didem Karaçetin, Burçak  Yılmaz erişim adresi: https://dosyahastane.saglik.gov.tr/Eklenti/229283/0/radyasyon-el-kitabi-1pdf.pdf | | | | | | | | | |
| **OTHER REFERENCES** | | | | Radyasyon Maruziyeti. (2022). Ed. Sema Yılmaz Rakıcı. Akademisyen Kitabevi. | | | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | Computer, projection, UZEMOYS. | | | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Radiation sources |
| 2 | Radiation units |
| 3 | Radiation fields |
| 4 | Biological effects of radiation |
| 5 | Deterministic effects of radiation |
| 6 | Pregnancy and medical irradiation |
| 7 | Radiation exposure limitation and reduction, labeling and marking |
| 8 | Personal dosimeters |
| 9 | Personal safety in diagnostic radiology |
| 10 | Factors that reduce the patient dose in examinations |
| 11 | Protection of patients and their relatives from radiation |
| 12 | Radiation protection in nuclear medicine applications |
| 13 | Radiation protection in radiotherapy applications |
| 14 | Radiation safety of devices |
| 15,16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques | **x** |  |  |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques | **x** |  |  |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems | **x** |  |  |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values | **x** |  |  |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication | **x** |  |  |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques | **x** |  |  |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach | **x** |  |  |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning | **x** |  |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes | **x** |  |  |
| 10 | Using and communicating a foreign language at a basic level |  | **x** |  |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules | **x** |  |  |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field | **x** |  |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**



**ESOGU** **Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **SEMESTER** | FALL |

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| **COURSE CODE** | 211411187 | **COURSE NAME** | MEDICAL IMAGING I |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | |
| **Theory** | | **Practice** | **Labratory** | | | **Credit** | **ECTS** | **TYPE** | | **LANGUAGE** |
| 1 | 2 | | 0 | 0 | | | 2 | 3 | COMPULSORY (X) ELECTIVE ( ) | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** |
| X | |  | | | |  | | | | |  |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | |
| **MID-TERM** | | | | | **Evaluation Type** | | | | | **Quantity** | **%** |
| 1st Mid-Term | | | | | 1 | 40 |
| 2nd Mid-Term | | | | |  |  |
| Quiz | | | | |  |  |
| Homework | | | | |  |  |
| Project | | | | |  |  |
| Report | | | | |  |  |
| Others (………) | | | | |  |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | 60 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | |
| **COURSE DESCRIPTION** | | | | | Pre-radiography preparations, direct radiographs and patient positioning in radiographs, radiation protection principles during radiographs | | | | | | |
| **COURSE OBJECTIVES** | | | | | To gain knowledge and skills about radiological direct radiographs. | | | | | | |
| **ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION** | | | | | By giving basic information about radiographic positioning, the student will learn the basic features of direct radiographs and the principles of radiation protection. | | | | | | |
| **COURSE OUTCOMES** | | | | | To learn the principles of patient positioning and radiation protection in general body radiographs and radiographs. | | | | | | |
| **TEXTBOOK** | | | | | Kaya T., Özkan R., Adapınar B.(2016). Temel Radyoloji Tekniği. 5. Baskı Nobel Tıp Kitabevi, Clark'ın Radyoloji Teknikerleri için El Kitabı. (2022). 2. Baskı. Ed. Lütfü İhsan Kuru, Ahmet Aslan. Güneş Tıp Kitapevleri. | | | | | | |
| **OTHER REFERENCES** | | | | | Özdemir, İ. (2015). Temel Tıbbi (Radyolojik) Görüntüleme Tekniği. Hiperlink Yayınları | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Computer, projection, radiological instruments and equipment, UZEMOYS. | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Preparations for radiographic examination |
| 2 | Head and spine positioning |
| 3 | Head and spine radiographs |
| 4 | Upper extremities positioning |
| 5 | Upper extremity radiographs |
| 6 | Lower extremities positioning |
| 7 | Lower extremity radiographs |
| 8 | Hip positioning |
| 9 | Hip X-rays |
| 10 | Lung and heart positioning |
| 11 | Lung and heart radiographs |
| 12 | Breast, abdomen positioning |
| 13 | Breast, abdomen radiographs |
| 14 | Principles of radiation protection in radiographic shots |
| 15,16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques | **x** |  |  |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques | **x** |  |  |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems | **x** |  |  |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values | **x** |  |  |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication | **x** |  |  |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques | **x** |  |  |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach | **x** |  |  |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning |  | **x** |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes | **x** |  |  |
| 10 | Using and communicating a foreign language at a basic level |  | **x** |  |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules | **x** |  |  |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field | **x** |  |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):** **Signature**:  **Date:**

 **ESOGU** **Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **SEMESTER** | FALL |

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| **COURSE CODE** | 211411195 | **COURSE NAME** | BASIC MEDICAL INTERVENTIONS |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | |
| **Theory** | | **Practice** | **Labratory** | | | **Credit** | **ECTS** | **TYPE** | | **LANGUAGE** |
| 1 | 3 | | 2 | 0 | | | 4 | 4 | COMPULSORY (X) ELECTIVE ( ) | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** |
| X | |  | | | |  | | | | |  |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | |
| **MID-TERM** | | | | | **Evaluation Type** | | | | | **Quantity** | **%** |
| 1st Mid-Term | | | | | 1 | 30 |
| 2nd Mid-Term | | | | |  |  |
| Quiz | | | | |  |  |
| Homework | | | | |  |  |
| Project | | | | |  |  |
| Report | | | | |  |  |
| Others (practice) | | | | | 1 | 10 |
| **FINAL EXAM** | | | | |  | | | | | 1 | 60 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | |
| **COURSE DESCRIPTION** | | | | | Basic human needs, health care process and basic concepts, patient and employee safety practices and evaluation of vital signs, drug and intravenous drug administration, correct use of body mechanics, patient preparation before radiological examination and radiological positions to be given to the patient | | | | | | |
| **COURSE OBJECTIVES** | | | | | In terms of health services, it is to provide basic knowledge and skills in terms of basic patient care principles and methods in the field of radiology, working in harmony with other members of the healthcare team and ensuring employee safety. | | | | | | |
| **ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION** | | | | | In patients who will undergo diagnostic procedures in radiology; demonstrates basic patient care principles and methods. | | | | | | |
| **COURSE OUTCOMES** | | | | | Knowing the definitions related to the definition and protection of health, being able to define the healthcare team, their roles and responsibilities, knowing and safely applying the basic practices related to drug administration, ensuring patient and employee safety, knowing body mechanics and knowing the points to be considered in the positions to be given to the patient in radiology. | | | | | | |
| **TEXTBOOK** | | | | | 1.Ay A.F. (2022). Sağlık Uygulamalarında Temel Kavramlar ve Beceriler. Nobel Medikal Kitabevi. İstanbul. 2. Sur, H., Palteki, T., Yazıcı, G., (2022). Sağlık Çalışanlarının Güvenliği. Nobel Tıp Kitabevleri. 3. Sur, H., Palteki, T., Yazıcı, G., (2019). Hasta Güvenliği. Palme Yayıncılık. 4.Kaya, T. (Ed.). (2020). Temel Radyoloji Tekniği. Eskişehir: Nisan Kitabevi. 5.Whitley, A.S, Sloane, C., Jefferson, G., Holmes, K., Anderson, C. (2019).Clark'ın Radyoloji Teknikerleri İçin El Kitabı. Ed.Lütfi İhsan Kuru, Ahmet Aslan. Güneş Tıp Kitabevi. | | | | | | |
| **OTHER REFERENCES** | | | | | Radyoloji Megep Modülleri. www.modulkitaplari.com/radyoloji.html | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Computer, projection, model, UZEMOYS. | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Basic human needs, health and disease concepts, health care concept |
| 2 | Patient safety practices (identification, fall risk, drug safety, correct transfusion practices, medical device safety, communication, safe surgery) |
| 3 | Employee safety practices I (protective personal equipment, code white, violence, health screenings) |
| 4 | Employee safety practices II (asepsis, antisepsis- sterilization- disinfection practices- hand hygiene and use of gloves, sterile package opening techniques, SHI infections, infection control and isolation practices) |
| 5 | Employee safety practices III (stab wounds, medical waste management) |
| 6 | Evaluation of vital signs (temperature measurement, respiratory and pulse counting, blood pressure measurement) |
| 7 | Drug applications (preparation of drugs from ampoules and vial, use of fluid set) |
| 8 | Intravenous drug administration I (blood collection technique, intravenous drug administration) |
| 9 | Intravenous drug administration II (intravenous catheter insertion-removal, serum insertion removal) |
| 10 | Body mechanics techniques |
| 11 | Fundamentals of radiography techniques (anatomical planes, markings, leading lines, body movements, general body positions, projection terms) |
| 12 | Patient preparation and positions in radiology I (Lung and heart, upper and lower extremities, trunk radiographs) |
| 13 | Patient preparation and positions in radiology II (Trunk, head and face radiographs) |
| 14 | Patient preparation and positions in radiology III (Computed tomography-magnetic resonance imaging) |
| 15,16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques | **x** |  |  |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques | **x** |  |  |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems | **x** |  |  |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values | **x** |  |  |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication | **x** |  |  |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques | **x** |  |  |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach | **x** |  |  |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning |  | **x** |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes | **x** |  |  |
| 10 | Using and communicating a foreign language at a basic level |  | **x** |  |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules | **x** |  |  |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field | **x** |  |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):** **Signature**:  **Date:**

**ESOGU Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **SEMESTER** | FALL |

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| **COURSE CODE** | 211411176 | **COURSE NAME** | TURKISH LANGUAGE I |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | |
| **Theory** | | **Practice** | | **Labratory** | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** |
| 1 | 2 | | 0 | | 0 | | 0 | 2 | COMPULSORY ( ) ELECTIVE ( ) | | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** | |
|  | |  | | | | x | | | | |  | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | **Evaluation Type** | | | | | | **Quantity** | | **%** |
| 1st Mid-Term | | | | | | 1 | | 50 |
| 2nd Mid-Term | | | | | |  | |  |
| Quiz | | | | | |  | |  |
| Homework | | | | | |  | |  |
| Project | | | | | |  | |  |
| Report | | | | | |  | |  |
| Others (………) | | | | | |  | |  |
| **FINAL EXAM** | | | |  | | | | | | 1 | | 50 |
| **PREREQUIEITE(S)** | | | | None | | | | | | | | |
| **COURSE DESCRIPTION** | | | | Description and features of language, languages of the world, Position of Turkish among other languages, historical development of Turkish, development of western Turkish, Atatürk’s ideas and projects on Turkish, pronunciation and punctuation, language policies. | | | | | | | | |
| **COURSE OBJECTIVES** | | | | The subject of the course is to expose the value of Turkish language by giving information about development of Turkish language, to gain national language awareness, to develop reading and writing skills, to compare and contrast Turkish language to other languages, to compare and contrast language policy of developed countries to Turkish language policy, to gain skill of speaking. | | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | | Develop the ability of using Turkish properly at the business life. | | | | | | | | |
| **COURSE OUTCOMES** | | | | Learn Turkish grammar, Gain an understanding of the position of Turkish among other languages  Gain an understanding of history of Turkish language, Gain knowledge about Turkish languages in the world, Develop the ability of using Turkish properly  Learn the language policies, Gain writing skill, Gain speaking skill, Learn sentence structure and analyzing, Be able to realize Turkish vowels, Be able to realize formation of Turkish, Be able to read and comprehend, Be able to speak simultaneously, Be able to write compositions | | | | | | | | |
| **TEXTBOOK** | | | | Berrin Ar, İ. Alperen Biçer, Meriç Akpınar, Esin Ağca, Selin Şenaysoy, Halit Çelik, S. Alper Sökmen, Türk Dili I-II, Eskişehir Osmangazi Ün. Yayınları, Eskişehir, 2017 | | | | | | | | |
| **OTHER REFERENCES** | | | | 1. Kaplan, M., “Kültür ve Dil”, 8. baskı, ,Dergah Yayınları, İstanbul, 2016. 2. Fuat, M., “Dil Üstüne”, Adam Yayınları, İstanbul, 2001. 3. Ercilasun, A. B., “Başlangıçtan Yirminci Yüzyıla Türk Dili Tarihi”, Akçağ Yayınları, 21. baskı, Ankara, 2015. 4. Aksan, D., “Türkçe’nin Gücü”, Bilgi Yayınevi, 8. baskı, Ankara, 2019. 5. Karamanlıoğlu, A., “Türk Dili”, Degah Yayınları, 3. baskı, İstanbul, 1984. 6. Anday, M. C., “Dilimiz Üstüne Konuşmalar”, YKY, İstanbul, 1996. 7. Karaağaç, G., “Dil Tarih ve İnsan”, Akçağ Yayınevi, Ankara, 2005.2.baskı 8. Aksan, D., “Dil Şu Büyülü Düzen”, Bilgi Yayınevi, Ankara, 2003. 9. Banarlı, N. S., “Türkçe’nin Sırları”, 18. baskı, Kubbealtı Neşriyatı, İstanbul, 2002 | | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | DVD, VCD, Barcovision, computer, ESUZEM-OYS | | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Language- nation relationship |
| 2 | Language- culture relationship |
| 3 | All Languages in the world. |
| 4 | The place of Turkısh language between World languages |
| 5 | The historical development of Turkish language |
| 6 | The alphabets of the Turks, |
| 7 | Classification of Turkish dialects |
| 8 | Phonetics. |
| 9 | The meaning of the words |
| 10 | Functions of words |
| 11 | Production suffixes in Turkish |
| 12 | Inflectional suffixes in Turkish |
| 13 | Word groups |
| 14 | Sentence knowledge in Turkish |
| 15,16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques |  |  | **x** |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques |  |  | **x** |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems |  |  | **x** |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values |  |  | **x** |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication | **x** |  |  |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques |  |  | **x** |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach |  | **x** |  |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning | **x** |  |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes |  |  | **x** |
| 10 | Using and communicating a foreign language at a basic level |  |  | **x** |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules |  |  | **x** |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field |  |  | **x** |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**

**ESOGU Vocational School of Healt****h Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **SEMESTER** | FALL |

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| **COURSE CODE** | 211411196 | **COURSE NAME** | ENGLISH I |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | |
| **Theory** | | **Practice** | | **Labratory** | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** |
| 1 | 2 | | 0 | | 0 | | 0 | 2 | COMPULSORY ( X) ELECTIVE ( ) | | | ENGLISH |
| **COURSE CATAGORY** | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Support Courses** | |
|  | |  | | | |  | | | | | X | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | **Evaluation Type** | | | | | | **Quantity** | | **%** |
| 1st Mid-Term | | | | | | 1 | | 40 |
| 2nd Mid-Term | | | | | |  | |  |
| Quiz | | | | | |  | |  |
| Homework | | | | | |  | |  |
| Project | | | | | |  | |  |
| Report | | | | | |  | |  |
| Others (………) | | | | | |  | |  |
| **FINAL EXAM** | | | |  | | | | | | 1 | | 60 |
| **PREREQUIEITE(S)** | | | | None | | | | | | | | |
| **COURSE DESCRIPTION** | | | | The Common European Framework (CEF) consists of content and activities for the acquisition of English language competencies at the Basic user (A1) level according to the assessment and reference system for languages. | | | | | | | | |
| **COURSE OBJECTIVES** | | | | In the context of listening, reading, speaking and verbal expression, written expression skills, to provide students with a basis for their development in English language proficiency. | | | | | | | | |
| **ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION** | | | | The students will gain the competencies necessary to understand the basic English language resources related to the applications of the field in which they are studying. | | | | | | | | |
| **COURSE OUTCOMES** | | | | At the end of the course, students  1. will be able to understand familiar words and very basic patterns about themselves, their families and their immediate surroundings when spoken slowly and clearly;  2. understand familiar names, words and very simple sentences in written texts such as catalogs, announcements or posters;  3. use simple phrases and sentences to describe where they live and people they know;  4. Make correspondence with short and simple sentences and fill out forms containing personal information. | | | | | | | | |
| **TEXTBOOK** | | | | Essential Grammar in Use: with answers. (2015). Raymond Murphy. 4th Edition. Cambridge University Press, Cambridge: UK | | | | | | | | |
| **OTHER REFERENCES** | | | | Asynchronous narration videos and exercises offered to students at <https://canvas.ogu.edu.tr> | | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | A computer with internet connection, UZEMOYS | | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Introduction: Course and Learning Management System |
| 2 | am/is/are, am/is/are questions |
| 3 | present continuous, present continuous questions |
| 4 | a/an, singular/plural, there is / there are |
| 5 | countable/uncountable, I/me, he/him, they/them |
| 6 | my/his/their, mine/yours/hers |
| 7 | Do this! Don’t do this! |
| 8 | This/that/these/those, Simple present |
| 9 | Simple present negatives, Present simple questions |
| 10 | Simple present and present cont., Some/any |
| 11 | Was/were, Simple past |
| 12 | Simple past questions, Adjectives |
| 13 | Adverbs |
| 14 | An overview |
| 15-16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire the knowledge and skills within the scope of medical documentation and secretarial services and to have the ability to use them in business life. |  | **x** |  |
| 2 | To have the ability to use basic computer programs and related technologies specific to medical documentation and secretarial services. |  | **x** |  |
| 3 | To inform the relevant persons and institutions by using the basic knowledge and skills on medical documentation and secretarial services, to be able to convey his thoughts and suggestions for solutions to problems verbally and in writing. |  | **x** |  |
| 4 | To be able to create, edit, save and archive medical documents. |  |  | **x** |
| 5 | To be able to report using the knowledge of medical terminology. |  | **x** |  |
| 6 | To have the ability to good communication and healthy human relations with people and organizations inside or outside the institution. |  |  | **x** |
| 7 | To be able to follow the information in the field and communicate with colleagues by using at least one foreign language at the basic level. |  | **x** |  |
| 8 | To develop organizational behavior suitable for medical secretarial services, to have the ability to manage personal and organizational image. |  | **x** |  |
| 9 | As a member of the healthcare team, to be able to perform the duties and responsibilities in harmony with teammates. |  |  | **x** |
| 10 | To have enough awareness on individual and public health, environmental protection and occupational safety. | **x** |  |  |
| 11 | To have awareness of patient rights, social responsibility, universal, social and professional ethics and to act in accordance with the legislation. |  |  | **x** |
| 12 | To follow the developments in the professional field and to improve oneself with the awareness of lifelong learning. |  | **x** |  |
| 1:None. 2:Partially Contribution. 3: Completely Contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**



**ESOGU** **Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **SEMESTER** | FALL |

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| **COURSE CODE** | 211411197 | **COURSE NAME** | MEDICAL BIOLOGY AND GENETICS |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | |
| **Theory** | | **Practice** | **Labratory** | | | **Credit** | **ECTS** | **TYPE** | | **LANGUAGE** |
| 1 | 2 | | 0 | 0 | | | 2 | 4 | COMPULSORY ( ) ELECTIVE (X ) | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** |
|  | |  | | | |  | | | | | x |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | |
| **MID-TERM** | | | | | **Evaluation Type** | | | | | **Quantity** | **%** |
| 1st Mid-Term | | | | | 1 | 50 |
| 2nd Mid-Term | | | | |  |  |
| Quiz | | | | |  |  |
| Homework | | | | |  |  |
| Project | | | | |  |  |
| Report | | | | |  |  |
| Others (………) | | | | |  |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | 50 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | |
| **COURSE DESCRIPTION** | | | | | Basic concepts in biology, basic concepts of genes and chromosomes, genetic diseases | | | | | | |
| **COURSE OBJECTIVES** | | | | | Gain knowledge of medical biology and genetics to understand and explain the underlying cause of medical conditions | | | | | | |
| **ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION** | | | | | Learning the interests of biology  Learning the structure of the cell and cell membrane  Evaluating the inheritance pattern of a genetic trait  Ability to interpret the genetic origin of a trait or disease using medical genetics concepts | | | | | | |
| **COURSE OUTCOMES** | | | | | Defining the scope of biology  Detailed understanding of the structure of the cell  Explain the cell division mechanisms  Recognizing the basic principles of heredity  Identifying genetic diseases and explaining chromosomal abnormalities | | | | | | |
| **TEXTBOOK** | | | | | Tıbbi Biyoloji ve Genetik. (2022). Ed. Ebru Temiz. Nobel Akademik Yayıncılık | | | | | | |
| **OTHER REFERENCES** | | | | | Tıbbi Biyoloji Ders Kitabı. (2020). Ayşe Başaran, Nobel Kitabevi Tıbbi Genetik. (2019). Willard H.F., Mcinnes R.R., Nussbaum R.L., Thompson & Thompson. Ed. Mehmet Alikaşifoğlu. 8. Baskı, Güneş Tıp Kitabevleri, | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Computer, projection, UZEMOYS | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Learning the structure of the cell and cell membrane cytoplasm, nucleus and cell organelles |
| 2 | Physical structure of the cell and transport in the cell membrane, chemical structure of the cell, inorganic and organic substances |
| 3 | Proteins and nucleic acids, protein synthesis, enzymes, vitamins |
| 4 | Cell metabolism, photosynthesis, chemosynthesis, cell division -mitosis-meiosis |
| 5 | Cellular respiration, cell warning systems |
| 6 | Plasmolysis and deplasmolysis events |
| 7 | Status of erythrocytes in isotonic, hypotonic and hypertonic solutions |
| 8 | Gene structure, mechanisms controlling gene expression |
| 9 | Mendel's principles, pedigree drawing |
| 10 | Inherited traits/inheritance patterns of diseases, methods of examining hereditary factors |
| 11 | Importance of genetic factor in multifactorial diseases, gene mutation types |
| 12 | Structure of chromosomes, numerical and structural chromosome irregularities |
| 13 | Karyotype analysis methods, DNA analysis |
| 14 | Prenatal diagnosis |
| 15,16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques |  |  | **x** |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques |  |  | **x** |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems |  |  | **x** |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values |  |  | **x** |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication |  |  | **x** |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques |  |  | **x** |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach |  |  | **x** |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning |  | **x** |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes |  | **x** |  |
| 10 | Using and communicating a foreign language at a basic level |  | **x** |  |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules |  | **x** |  |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field |  |  | **x** |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**

 **ESOGU** **Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **SEMESTER** | FALL |

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| **COURSE CODE** | 211411198 | **COURSE NAME** | INTRODUCTION TO PSYCHOLOGY |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | |
| **Theory** | | **Practice** | | **Labratory** | | **Credit** | **ECTS** | **TYPE** | | **LANGUAGE** |
| 1 | 2 | | 0 | | 0 | | 2 | 4 | COMPULSORY ( ) ELECTIVE (X ) | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** |
|  | |  | | | |  | | | | | x |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | |
| **MID-TERM** | | | | **Evaluation Type** | | | | | | **Quantity** | **%** |
| 1st Mid-Term | | | | | | 1 | 40 |
| 2nd Mid-Term | | | | | |  |  |
| Quiz | | | | | |  |  |
| Homework | | | | | |  |  |
| Project | | | | | |  |  |
| Report | | | | | |  |  |
| Others (………) | | | | | |  |  |
| **FINAL EXAM** | | | |  | | | | | | 1 | 60 |
| **PREREQUIEITE(S)** | | | | None | | | | | | | |
| **COURSE DESCRIPTION** | | | | To study on concepts on psychology, human psychology, development | | | | | | | |
| **COURSE OBJECTIVES** | | | | The purpose of this course is to gain to students knowing the basic concepts of psychology and understanding the human behaviour, emotion and cognition and apply the knowldge about the psychology | | | | | | | |
| **ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION** | | | | To comprehend the basic theories of psychology, which is an interdisciplinary field of science, related to the field of health sciences; to develop skills in health care development through a psychological perspective. In addition to this, students will be able to understand the perspectives of psychology, personality and developmental theories, to know the developmental characteristics of individuals and to be able to observe and evaluate their behaviors with a critical perspective. | | | | | | | |
| **COURSE OUTCOMES** | | | | At the end of this course; Students  1. Know the basic concepts of psychology  2. Know the therotical and application subjects related with psychology  3. Apply person-in communication strategies and concepts learned in the conflict.  4. Understand the relationship between interpersonal  and may develop effective strategies in resolving conflicts.  5. Use the knowledge about learning, motivation and brain  6.Know the learning theories  7.Learn about the concepts used in the psychological profession will be | | | | | | | |
| **TEXTBOOK** | | | | 1‘‘Psikolojiye ve yaşam: Psikolojiye giriş.” R. J.& Zimbardo, P. G., Çeviren: Asil Ali Özdoğru, AnkaraNobel Akademik Yayıncılık, 2019. | | | | | | | |
| **OTHER REFERENCES** | | | | 2.“İnsan ve Davranışı, D. Cüceloğlu, Remzi Kitapevi”  3.“Psikolojiye Giriş”, T. M. Cliford, Eğitim Yayınevi*.,* Ankara, 2015. Çev. Ed. Sirel Karakaş, Rükzan Eski  4.”Psikolojiyi anlamak, (psikolojiye giriş)”, Charles G. Morris; çeviri editörleri H. Belgin Ayvaşık, Melike Sayıl. Ankara : Türk Psikologlar Derneği, 2002.  5.“Psikolojiye Giriş”, Rita L. Atkinson, Ernest R. Hilgard, Richard C. Atkinson, *Sosyal Yayınlar,* Çeviren: Aysun Yavuz, Kemal Atalay, Mustafa Atalay, 1996. | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | Computer, projection, UZEMOYS. | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Introduction; information about dating, course content, resources and evaluation, introduction to the science of psychology |
| 2 | Perspectives on psychology |
| 3 | Biological foundations of behavior |
| 4 | Learning and behavior analysis |
| 5 | Sensation and perception |
| 6 | Memory |
| 7 | Cognitive processes |
| 8 | Intelligence and measurement |
| 9 | Developmental theories |
| 10 | Learning theories |
| 11 | Motivation |
| 12 | Personality theories |
| 13 | Motive, drive, motivation and theories |
| 14 | Social Psychology |
| 15,16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques |  |  | **x** |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques |  |  | **x** |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems |  |  | **x** |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values |  | **x** |  |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication | **x** |  |  |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques | **x** |  |  |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach |  |  | **x** |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning |  | **x** |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes |  | **x** |  |
| 10 | Using and communicating a foreign language at a basic level |  | **x** |  |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules |  | **x** |  |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field |  |  | **x** |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**

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**ESOGU Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **SEMESTER** | FALL |

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| **COURSE CODE** | 211411199 | **COURSE NAME** | BIOPHYSICS |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | |
| **Theory** | | **Practice** | **Laboratory** | | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** |
| 1 | 2 | | 0 | 0 | | | 2 | 4 | COMPULSORY ( ) ELECTIVE ( X ) | | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** | |
|  | |  | | | |  | | | | | X | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | | **Evaluation Type** | | | | | **Quantity** | | **%** |
| 1st Mid-Term | | | | | 1 | | 40 |
| 2nd Mid-Term | | | | |  | |  |
| Quiz | | | | |  | |  |
| Homework | | | | |  | |  |
| Project | | | | |  | |  |
| Report | | | | |  | |  |
| Others (………) | | | | |  | |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | | 60 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | | |
| **COURSE DESCRIPTION** | | | | | Definition and scope of biophysics, SI unit system and dimensional analysis, distribution of water in the body and the main functions of water in the body, fluids biophysics, biophysical properties of straight and eddy currents, the concept of pressure, hydrostatic pressure and osmotic pressure, the causes of edema and edema in the body, cell and its types, cell membrane and structure, ions that serve in the human body and the types of radioactivity, radioactivity, the effects of radioactivity on the human body, the effects of radioactivity, radioactivity on the methods of measurement, radioactivity, the effects of radioactivity on the cell, its application and structure. | | | | | | | |
| **COURSE OBJECTIVES** | | | | | The main purpose of this course is to present the basic content of biophysics and the features of the concept of radioactivity in a clear and understandable way. | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | | | To understand the importance of biophysics in the development of medical imaging, to know the use of radioactivity in medical imaging methods and to learn the effects and protection principles of cells and tissues. | | | | | | | |
| **COURSE OUTCOMES** | | | | | Learn the theories and methods of physics to understand how biological systems work Will be able to explain the concept of radioactivity and its units, effects and principles of protection | | | | | | | |
| **TEXTBOOK** | | | | | Biyofizik. (2022). Enes Akyüz. Nobel tıp Kitabevleri  Biyofizik. (2021). Ferit Pehlivan, Pelikan Kitabevi. 11.baskı. | | | | | | | |
| **OTHER REFERENCES** | | | | | Biyofizik (Tıp ve Diş Hekimliği Öğrencileri İçin ). (2005). Gürbüz Çelebi. 3.baskı. Barış Yayınları Fakülteler Kitabevi | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Computer, projector, UZEMOYS | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Definition and scope of biophysics |
| 2 | SI Unit system and dimensional analysis |
| 3 | The distribution of water in the body and the main functions of water in the body |
| 4 | Fluid Biophysics |
| 5 | Biophysical properties of straight and eddy currents |
| 6 | The concept of pressure, hydrostatic pressure and osmotic pressure |
| 7 | Edema and the causes of edema in the body |
| 8 | Cell and its types |
| 9 | Cell membrane and its structure |
| 10 | Ions that function in the human body and the properties of these ions |
| 11 | Radioactivity |
| 12 | Measurement methods of radioactivity |
| 13 | The effect of radioactivity on the cell, |
| 14 | Application of radioactivity in medicine |
| 15,16 | FINAL EXAM |

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| --- | --- | --- | --- | --- |
| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques |  | **x** |  |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques | **x** |  |  |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems | **x** |  |  |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values |  | **x** |  |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication |  | **x** |  |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques |  | **x** |  |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach | **x** |  |  |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning |  | **x** |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes |  | **x** |  |
| 10 | Using and communicating a foreign language at a basic level |  |  | **x** |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules |  |  | **x** |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field |  | **x** |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature: Date:**

**ESOGU Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **TERM** | FALL |

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| **COURSE CODE** | 211411100 | **COURSE NAME** | PHYSICAL EDUCATION I |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | |
| **Theory** | | **Practice** | **Labratory** | | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** |
| 1 | 1 | | 0 | 0 | | | 0 | 1 | COMPULSORY ( ) ELECTIVE ( X) | | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** | |
|  | |  | | | | x | | | | |  | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | | **Evaluation Type** | | | | | **Quantity** | | **%** |
| 1st Mid-Term | | | | | 1 | | 40 |
| 2nd Mid-Term | | | | |  | |  |
| Quiz | | | | |  | |  |
| Homework | | | | |  | |  |
| Project | | | | |  | |  |
| Report | | | | |  | |  |
| Others (………) | | | | |  | |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | | 60 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | | |
| **COURSE DESCRIPTION** | | | | | Physical education; running, joint and muscle groups convenient to theirs level, sport branch, basketball, volleyball, handball field measures and rules of game, sport benefits to our health; health, first aid, matches in class. | | | | | | | |
| **COURSE OBJECTIVES** | | | | | The ability of having knowledge concerning the orders of the lecture.  The ability of running all the organs and systems to convenience of theirs level.  The ability of improving the nerve muscle and joint coordinating.  The ability of having basic knowledge, skill, manner and habits concerning physical education and sport  Take responsibility and duty, to go with leader and the ability of doing leadership  Playing amicably and competition appreciating the winner acceptance of loosing, and can be object to trick and injustice.  Having knowledge about sport, vehicle and facilities and can use this. | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | | | Contributing to academic success by strengthening oneself physically and spiritually by making use of free time with sports activities. | | | | | | | |
| **COURSE OUTCOMES** | | | | | The ability of growing health, happy, developed aspect of physical and psychological, self confident individuals who have the sense competitioning amicably. | | | | | | | |
| **TEXTBOOK** | | | | | Physical Education and Sports Science (Ali Niyazi İnal)2020 | | | | | | | |
| **OTHER REFERENCES** | | | | | Athletics (Ahmet Korkut Yapıcı) 2013, Olympic Games and Olympic Sports (Rıza Erdal) 2007, Sports Nutrition (Esin Göksu Şeker) 2017, <https://www.tbf.org.tr/,https://tvf.org.tr/,https://www.tff.org/,https://www.thf.org.tr/>, <https://www.ilkyardim.org.tr/temel-ilk-yardim-bilgileri.html>, <https://www.olimpikakademi.com.tr/makaleler/ataturkun-spor-ile-ilgili-soyledigi-sozler> | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Barcovision - power point presentation, materials in the gym, ESUZEM-OYS | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Giving general knowledge about the subject of physical education. |
| 2 | The role of physical education in the development of the individual. |
| 3 | General information about athletics. |
| 4 | Basketball court and game rules. |
| 5 | Volleyball court and game rules. |
| 6 | Football field and game rules. |
| 7 | Handball field and game rules. |
| 8 | First aid and basics in first aid. |
| 9 | First aid applications in situations requiring first aid. |
| 10 | First aid for sports injuries and sports injuries. |
| 11 | Nutrients and sports nutrition. |
| 12 | Olympics and its history aims and principles. |
| 13 | Olympic games. |
| 14 | Atatürk’s words about physical education and sports. |
| 15,16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** | |
| **1** | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques |  |  | **x** | |
| **2** | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques |  |  | **x** | |
| **3** | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems |  |  | **x** | |
| **4** | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values |  |  | **x** | |
| **5** | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication |  |  | **x** | |
| **6** | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques |  |  | **x** | |
| **7** | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach |  |  | **x** | |
| **8** | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning |  | **x** |  | |
| **9** | To act in accordance with occupational safety, patient safety and quality management processes |  |  | **x** | |
| **10** | Using and communicating a foreign language at a basic level |  |  | **x** | |
| **11** | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules |  |  | **x** | |
| **12** | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field |  |  | **x** | |
| 1:No Contribution. 2: Partially Contributed. 3: Full Contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**

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**ESOGU Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **SEMESTER** | FALL |

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| **COURSE CODE** | 211011110 | **COURSE NAME** | OCCUPATIONAL HEALTH AND SAFETY I |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | | **COURSE OF** | | | | |
| Theory | | Practice | | | Laboratory | | Credit | ECTS | | TYPE | LANGUAGE |
| 1 | 1 | | 0 | | | 0 | | 0 | 1 | | COMPULSORY ( )  ELECTIVE ( X ) | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | | **Social Courses** | | | | | **Supportive Courses** |
|  | |  | | | | |  | | | | | **x** |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | |
| **MID-TERM** | | | | **Evaluation Type** | | | | | | **Quantity** | | **%** |
| Mid-Term | | | | | | 1 | | 40 |
| Quiz | | | | | |  | |  |
| Homework | | | | | |  | |  |
| Project | | | | | |  | |  |
| Report | | | | | |  | |  |
| Others (………) | | | | | |  | |  |
|  | | | | | |  | |  |
| **FINAL EXAM** | | | |  | | | | | | 1 | | 60 |
| **PREREQUIEITE(S)** | | | | None | | | | | | | | |
| **COURSE DESCRIPTION** | | | | | Occupational healthy and safety definition, importance, historical development and basic concepts of the subject, Occupational safety culture, OHS legislation, Hazard sources and classification, Occupational accidents, Occupational diseases, Impact on employees of the work environment (physical, chemical, psychosocial, etc. factors), Basic Occupational safety in workplaces, Risk assessment, Personal protective Equipment (PPE), Health and safety signs, Fire, The relevant legislation | | | | | | | |
| **COURSE OBJECTIVES** | | | | | The main objective of the course is to teach prevention methods of occupational accidents an occupational diseases in the workplace. | | | | | | | |
| **ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION** | | | | | Knowing the possible precautions against accidents and occupational diseases in the workplace to protect human health and improve the efficiency of labor | | | | | | | |
| **COURSE OUTCOMES** | | | | | 1. Ability to interpretation the regulation on Occupational Health and Safety  2. To improve the physical conditions of the workplace, develop alternative solutions and solving.  3. Ability to identify hazards and risks existing in the workplace.  4. Ability to apply the concept of risk assessment | | | | | | | |
| **TEXTBOOK** | | | | | 1.Kahya, E., 2022, İş Güvenliği, ESOGÜ Yayın No :246, Eskişehir.  2.6331 Sayılı İş Sağlığı ve Güvenliği Kanunu. | | | | | | | |
| **OTHER REFERENCES** | | | | | 1.Yiğit, A., İş Güvenliği, 2013, Dora basım-Yayın Dağıtım Ltd. Şti, Bursa. 2.Ayır, M. ve Ergül, M., 2006, İş Güvenliği ve Risk Değerlendirme Uygulamaları, Bursa. 3.Dizdar, E.N., 2008, İş Güvenliği, 4.Baskı, Murathan Yayınevi, Trabzon. 4.Esin, A., 2006, Yeni Mevzuatın Işığında İş Sağlığı ve Güvenliği*,*  TMMO MMO Yayın No:MMO/363/2, Ankara. | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Computer, projection equipment, personal protective equipment, UZEMOYS | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Course scope, execution, evaluation |
| 2 | Occupational Safety (defines, importance, etc.) |
| 3 | Occupational Safety Culture |
| 4 | OHS legislation |
| 5 | Occupational accidents (agents, type, performance criteria) and basic safety precautions |
| 6 | Occupational accidents (Formation theories, statistics, investigations) and basic safety precautions |
| 7 | Occupational diseases |
| 8 | Risk Factors (physical, chemical, biological) |
| 9 | Risk Factors (psychosocial and ergonomic) |
| 10 | Basic safety rules in workplaces |
| 11 | Risk Assesment |
| 12 | Personal Protective Equipment |
| 13 | Health and safety signs |
| 14 | Fire |
| 15,16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques |  |  | **x** |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques |  |  |  |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems |  | **x** |  |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values | **x** |  |  |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication |  | **x** |  |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques |  | **x** |  |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach |  |  | **x** |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning |  | **x** |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes | **x** |  |  |
| 10 | Using and communicating a foreign language at a basic level |  | **x** |  |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules |  | **x** |  |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field |  | **x** |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**

**ESOGÜ Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **SEMESTER** | SPRING |

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| **COURSE CODE** | 211412159 | **COURSE NAME** | USE OF BASIC KNOWLEDGE TECHNOLOGIES |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | |
| **Theory** | | **Practice** | **Laboratory** | | | **Credit** | **ECTS** | **TYPE** | | **LANGUAGE** |
| 2 | 1 | | 2 | 0 | | | 2 | 3 | COMPULSORY (X) ELECTIVE ( ) | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** |
|  | | X | | | |  | | | | |  |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | | **Evaluation Type** | | | | | **Quantity** | **%** |
| 1st Mid-Term | | | | | 1 | 50 |
| 2nd Mid-Term | | | | | - | - |
| Quiz | | | | | - | - |
| Homework | | | | | - | - |
| Project | | | | | - | - |
| Report | | | | | - | - |
| Others (………) | | | | | - | - |
| **FINAL EXAM** | | | | |  | | | | | 1 | 50 |
| **PREREQUIEITE(S)** | | | | | No | | | | | | |
| **COURSE DESCRIPTION** | | | | | Concept of Basic Computer Technology, Hardware and Software Concepts, Operating Systems and Types, Understanding and Using Word Processing, Spreadsheets and Slide Presentations Preparation Programs, Data Base and Facilities, Internet Infrastructure and Internet Usage, Web Page Design | | | | | | |
| **COURSE OBJECTIVES** | | | | | The objective of the course is to provide students to use computer technologies actively. | | | | | | |
| **ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION** | | | | | Providing the secreterial candidates to use computer and information technologies in their professional life. | | | | | | |
| **COURSE OUTCOMES** | | | | | 1. To be informed about basic information technology, 2. To understand computer's hardware and software components and the procedures of computer working, 3. To know operating systems, 4. To use Word Processing, Spreadsheets and Slide Presentations Preparation Programs, 5. To know databases and apply the basic database operations, 6. To use the Internet, 7. To design web pages | | | | | | |
| **TEXTBOOK** | | | | | Temel Bilgi Teknolojileri I (2015). Ed. T. Volkan Yüzer, M. Recep Okur. T.C. Anadolu Üniversitesi Yayını No: 3190, Açıköğretim Fakültesi Yayını No: 2071 Temel Bilgi Teknolojileri. (2018). Ramazan Demir, Nobel Akademik Yayıncılık | | | | | | |
| **OTHER REFERENCES** | | | | | Bilgisayara Giriş. (2017). Ed. Gökçe Becit İşçitürk. Pegem Yayıncılık | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Computer, Datashow, Microsoft Office Package Program, UZEMOYS. | | | | | | |
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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Information Technology and Computer Organization |
| 2 | Basic Hardware in Computer |
| 3 | Additional Hardware in Computer |
| 4 | Concept of Software and Types |
| 5 | Operating System, Commonly Used Operating Systems |
| 6 | Word Processors Facilities, Basic Concepts, Creating and Editing a Document, Creating a Table |
| 7 | Properties of Spreadsheet Programs, Basic Concepts |
| 8 | Properties of Spreadsheet Programs Data Entry and Formatting, Calculation |
| 9 | Creating Graphics in Spreadsheet Programs |
| 10 | Slide Presentation Program Facilities, Basic Concepts, Preparation of Slides and Presentations |
| 11 | Database Features, Tables, Records, Fields, Query, Reporting |
| 12 | Internet Infrastructure, Network Protocols, IP Numbers and Computer Names, Internet Servers |
| 13 | Internet Usage, Basic Concepts, www- World Wide Web, ftp- File Transfer Protocol, Search Engines, E-Mail |
| 14 | Web Page Design, Basic Concepts and HTML |
| 15,16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques | **x** |  |  |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques | **x** |  |  |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems | **x** |  |  |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values |  | **x** |  |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication | **x** |  |  |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques | **x** |  |  |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach | **x** |  |  |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning | **x** |  |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes | **x** |  |  |
| 10 | Using and communicating a foreign language at a basic level | **x** |  |  |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules | **x** |  |  |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field | **x** |  |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature: Date:**

**ESOGU** **Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **SEMESTER** | SPRING |

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| **COURSE CODE** | 211412160 | **COURSE NAME** | RADIOLOGICAL ANATOMY |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | |
| **Theory** | | **Practice** | **Labratory** | | | **Credit** | **ECTS** | **TYPE** | | **LANGUAGE** |
| 2 | 2 | | 0 | 0 | | | 2 | 2 | COMPULSORY (X) ELECTIVE ( ) | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** |
| x | |  | | | |  | | | | |  |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | |
| **MID-TERM** | | | | | **Evaluation Type** | | | | | **Quantity** | **%** |
| 1st Mid-Term | | | | | 1 | 40 |
| 2nd Mid-Term | | | | |  |  |
| Quiz | | | | |  |  |
| Homework | | | | |  |  |
| Project | | | | |  |  |
| Report | | | | |  |  |
| Others (………) | | | | |  |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | 60 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | |
| **COURSE DESCRIPTION** | | | | | This course; By using Basic Medical Terminology in addition to Basic Anatomy knowledge, it includes basic concepts of Radiological anatomy, motion system, topographic, cross-sectional, circulatory system, digestive system, respiratory system, nervous system, reproductive system, urinary system radiological anatomies, peripheral structures and such subjects. | | | | | | |
| **COURSE OBJECTIVES** | | | | | In the field of professional practice; Which of the imaging techniques is used, is to ensure the correct structure and correct positioning of the anatomical structure. | | | | | | |
| **ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION** | | | | | In the field of professional practice; Which of the imaging techniques is used, is to ensure the correct structure and correct positioning of the anatomical structure. | | | | | | |
| **COURSE OUTCOMES** | | | | | Students who successfully complete this course;  1. They learn the anatomy of bone structures and joints by direct radiography, CT and MR.  2.Learn the MR and CT anatomy of the nervous system.  3.Learn the radiological anatomy of the lung.  4.Learn the anatomy of the heart and main vessels.  5.Learn the CT and MR anatomy of the Abdominal and Pelvis organs. | | | | | | |
| **TEXTBOOK** | | | | | Tuba Selçuk Can, Murat Dündar, Yıldıray Savaş, Sercan Çetinkaya, Radyolojik Anatominin Temelleri, 2018 | | | | | | |
| **OTHER REFERENCES** | | | | | 1-S.Öz,A.Ortadeveci,H.Özden,G.Ay,C.Bozdoğan,F.Yıldız, M.Kaya, Ö.Tuğ, Sağlık Bilimleri İçin Tıbbi ve Mesleki Terminoloji ,2022 2-S.Öz,Anatomi Terimler Sözlüğü 2018 3-İ,Döşemeci,Tıp Terimleri Sözlüğü 2012 4- Ferner- H, Staubesand, J. Sobotto Atlas of Human Anatomy, 2019 | | | | | | |
| **TOLS AND EQUIPMENTS REQUIRED** | | | | | Computer, projection, UZEMOYS | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Introduction to Anatomy and Basic Medical Terminology |
| 2 | Radiological Anatomy Basic Concepts |
| 3 | Radiological Anatomy of Bone Structures in the Motion System |
| 4 | Radiological Anatomy of Joints in the Motion System |
| 5 | Sectional Radiological anatomy of Upper Extremity – Truncus-Cranium |
| 6 | Lower Extremity-Pelvis Cross-sectional Radiological anatomy |
| 7 | Radiological Anatomy of the Heart in the Circulatory System |
| 8 | Radiological Anatomy of Vessels in the Circulatory System |
| 9 | Radiological Anatomy of the Digestive System |
| 10 | Radiological Anatomy of the Respiratory System |
| 11 | Radiological Anatomy of the Female Reproductive and Urinary System |
| 12 | Radiological Anatomy of the Male Reproductive and Urinary System |
| 13 | Nervous System Radiological Anatomy |
| 14 | Peripheral Formations |
| 15,16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques | **x** |  |  |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques |  | **x** |  |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems | **x** |  |  |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values | **x** |  |  |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication | **x** |  |  |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques | **x** |  |  |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach | **x** |  |  |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning | **x** |  |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes | **x** |  |  |
| 10 | Using and communicating a foreign language at a basic level |  | **x** |  |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules | **x** |  |  |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field | **x** |  |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**



**ESOGU** **Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **SEMESTER** | SPRING |

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| **COURSE CODE** | 211412161 | **COURSE NAME** | MEDICAL IMAGING II |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | |
| **Theory** | | **Practice** | **Labratory** | | | **Credit** | **ECTS** | **TYPE** | | **LANGUAGE** |
| 2 | 2 | | 4 | 0 | | | 4 | 4 | COMPULSORY (X) ELECTIVE ( ) | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** |
| X | |  | | | |  | | | | |  |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | |
| **MID-TERM** | | | | | **Evaluation Type** | | | | | **Quantity** | **%** |
| 1st Mid-Term | | | | | 1 | 30 |
| 2nd Mid-Term | | | | |  |  |
| Quiz | | | | |  |  |
| Homework | | | | |  |  |
| Project | | | | |  |  |
| Report | | | | |  |  |
| Others (practice) | | | | | 1 | 10 |
| **FINAL EXAM** | | | | |  | | | | | 1 | 60 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | |
| **COURSE DESCRIPTION** | | | | | Computarized tomography's (CT), magnetic resonance examination's (MRG) filming methods and cross-sectional anatomy positioning in body departments. Basic interventional methods. | | | | | | |
| **COURSE OBJECTIVES** | | | | | To teach cross-sectional anatomy of body parts and imaging methods in cross-sectional imaging methods such as computed tomography (CT) and magnetic resonance imaging (MRI), To teach vascular and non-vascular basic interventional methods | | | | | | |
| **ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION** | | | | | Students will learn CT and MRG filming, cross-sectional anatomy, basic interventional methods and quality evaluations. | | | | | | |
| **COURSE OUTCOMES** | | | | | Students will find out quality evaluations in section filming methods, basic interventional methods and radiological examinations. | | | | | | |
| **TEXTBOOK** | | | | | Kaya T., Özkan R., Adapınar B.(2016). Temel Radyoloji Tekniği 5. Baskı. Nobel Tıp Kitabevi, 2016.Clark'ın Radyoloji Teknikerleri için El Kitabı. (2022). 2. Baskı. Ed.Lütfü İhsan Kuru, Ahmet Aslan. Güneş Tıp Kitapevleri. | | | | | | |
| **OTHER REFERENCES** | | | | | Özdemir, İ. (2015). Temel Tıbbi (Radyolojik) Görüntüleme Tekniği. Hiperlink Yayınları | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Computer, projection, radiological instruments and equipment, UZEMOYS. | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Celebral CT and MR filming methods and cross-sectional anatomy |
| 2 | Hypophysis CT and MR filming methods and cross-sectional anatomy |
| 3 | Ortiba CT and MR filming methods and cross-sectional anatomy |
| 4 | Temporal bone CT and MR filming methods and cross-sectional anatomy |
| 5 | Paranazal sinuses CT and MR filming methods and cross-sectional anatomy |
| 6 | Neck CT and MR filming methods and cross-sectional anatomy |
| 7 | Larynx CT and MR filming methods and cross-sectional anatomy |
| 8 | Vertebral CT and MR filming methods and cross-sectional anatomy |
| 9 | Thorax exeminations CT and MR filming methods and cross-sectional anatomy |
| 10 | Abdomen-pelvis CT and MR filming methods and cross-sectional anatomy |
| 11 | Apendices skeleton and joints CT and MR filming methods and cross-sectional anatomy |
| 12 | Interventional radiology 1 (vacular) |
| 13 | Interventional radiology 2 (non vacular) |
| 14 | Quality evoluation in CT and MR |
| 15,16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques | **x** |  |  |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques | **X** |  |  |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems | **x** |  |  |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values | **x** |  |  |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication | **x** |  |  |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques | **x** |  |  |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach | **x** |  |  |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning |  | **x** |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes | **x** |  |  |
| 10 | Using and communicating a foreign language at a basic level |  | **x** |  |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules | **x** |  |  |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field | **x** |  |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**

**ESOGU Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **SEMESTER** | SPRING |

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| **COURSE CODE** | 211412162 | **COURSE NAME** | RADIATION PHYSICS |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | |
| **Theory** | | **Practice** | **Laboratory** | | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** |
| 2 | 3 | | 0 | 0 | | | 3 | 4 | COMPULSORY ( x) ELECTIVE ( ) | | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** | |
|  | | x | | | |  | | | | |  | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | | **Evaluation Type** | | | | | **Quantity** | | **%** |
| 1st Mid-Term | | | | | 1 | | 40 |
| 2nd Mid-Term | | | | |  | |  |
| Quiz | | | | |  | |  |
| Homework | | | | |  | |  |
| Project | | | | |  | |  |
| Report | | | | |  | |  |
| Others (………) | | | | |  | |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | | 60 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | | |
| **COURSE DESCRIPTION** | | | | | Informing medical imaging health technician students about the acquisition of radiation | | | | | | | |
| **COURSE OBJECTIVES** | | | | | To give the basic concepts and principles of radiation physics in a clear and logical way and to ensure that these principles and concepts are understandable in their professional lives. | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | | | To have knowledge about radiation physics topics | | | | | | | |
| **COURSE OUTCOMES** | | | | | To teach physical interactions and physical principles of x-ray devices in radiographic procedures. | | | | | | | |
| **TEXTBOOK** | | | | | 1. Radyoloji Fiziği, Mustafa Korkmaz, Şeyda Çolak.2021. Palme Yayınevi 2.Atomlar ve Moleküller, Ayhan Zeren. 2018.Birsen Yayınevi | | | | | | | |
| **OTHER REFERENCES** | | | | | Çağdaş Fiziğin Kavramları, Besier Arthub. 2008. Gülsen Önengüt 6.Baskı, Akademi Yayıncılık | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Projector, Text pen, Computer, UZEMOYS | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | The birth and invention of the concept of atom |
| 2 | Atom models |
| 3 | Radiation |
| 4 | Radiological tools and equipment |
| 5 | Photons |
| 6 | Protons, Electrons and Neutrons |
| 7 | Photoelectric |
| 8 | Compton |
| 9 | Question solution about photoelectricity and Compton phenomenon |
| 10 | Pair formation |
| 11 | Blackbody radiation |
| 12 | Thomson scattering |
| 13 | Electromagnetic waves and their regions |
| 14 | Radioactivity |
| 15,16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques |  | **x** |  |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques | **x** |  |  |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems | **x** |  |  |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values |  | **x** |  |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication |  |  | **x** |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques |  | **x** |  |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach | **x** |  |  |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning |  |  | **x** |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes |  | **x** |  |
| 10 | Using and communicating a foreign language at a basic level |  | **x** |  |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules | **x** |  |  |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field | **x** |  |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**



**ESOGU** **Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **SEMESTER** | SPRING |

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| **COURSE CODE** | 211412163 | **COURSE NAME** | PROFESSIONAL ETHICS |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | |
| **Theory** | | **Practice** | **Labratory** | | | **Credit** | **ECTS** | **TYPE** | | **LANGUAGE** |
| 2 | 2 | | 0 | 0 | | | 2 | 2 | COMPULSORY (X) ELECTIVE ( ) | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** |
|  | | X | | | |  | | | | |  |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | |
| **MID-TERM** | | | | | **Evaluation Type** | | | | | **Quantity** | **%** |
| 1st Mid-Term | | | | | 1 | 50 |
| 2nd Mid-Term | | | | |  |  |
| Quiz | | | | |  |  |
| Homework | | | | |  |  |
| Project | | | | |  |  |
| Report | | | | |  |  |
| Others (………) | | | | |  |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | 50 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | |
| **COURSE DESCRIPTION** | | | | | What is ethics ?What are the main ethical approaches and principles. ?  Professional ethics and codes | | | | | | |
| **COURSE OBJECTIVES** | | | | | Be aware of ethics in everyday medical practice, to take responsibility and apply professional ethics codes. | | | | | | |
| **ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION** | | | | | Understanding the basic ethical concepts and learning,understanding and application of professional ethical responsibility | | | | | | |
| **COURSE OUTCOMES** | | | | | To be sensitive to the values​​, codes of ethics to maintain their professional activities, to respect rights | | | | | | |
| **TEXTBOOK** | | | | | [Prof. Dr. Neyyire Yasemin Yalım](https://www.ankaranobel.com/tumu-c-0?filtreler%5B2%5D%5B%5D=994) , [Dr. Şükrü Keleş](https://www.ankaranobel.com/tumu-c-0?filtreler%5B2%5D%5B%5D=720) Sağlık Programları Meslek Etiği. [Ankara Nobel Tıp Kitabevleri](https://www.ankaranobel.com/ankara-nobel-tip-kitabevleri),2019 | | | | | | |
| **OTHER REFERENCES** | | | | | Gülfer Büyükbaş, Sağlık Meslek Etiği. Duvar Kitapevi,2021  Cevizci A. (2007).Etiğe Giriş. Paradigma Yayınları .İstanbul, 2. Baskı  Aydın Pehlivan İ. (2016).Yönetsel Mesleki ve Örgütsel Etik .Pegem Yay. Ankara 7.baskı | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Computer, projection, UZEMOYS. | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Philosophy, Ethics and Value concepts |
| 2 | Moral action, Moral philosophy, Ethics |
| 3 | Ethics and morals difference, parts of ethics, elements of ethics, functions of ethics. Theoretical and applied ethics. |
| 4 | Types of ethics and Basic ethical approaches |
| 5 | Basic ethical approaches and Basic ethical principles. |
| 6 | Health and Rights Concepts |
| 7 | Profession, definition and content of professional ethics, Codes of professional ethics, Ethical sensitivity and ethical awareness in professional practices |
| 8 | Health Legislation and Professional Responsibilities |
| 9 | Case Discussions and Ethical Evaluation (Justice) |
| 10 | Case Discussions and Ethical Evaluation (Integrity and Confidentiality) |
| 11 | Case Discussions and Ethical Evaluation (Informed Consent and Confidentiality) |
| 12 | Case Discussions and Ethical Evaluation (End of Life and Care) |
| 13 | Case Discussions and Ethical Evaluation (Beginning of Life and value conflict) |
| 14 | Case Discussions and Ethical Assessment (Communication with Colleagues, Vulnerable Groups) |
| 15,16 | FINAL EXAM |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques |  |  | **x** |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques |  |  | **x** |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems |  |  | **x** |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values | **x** |  |  |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication | **x** |  |  |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques | **x** |  |  |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach |  | **x** |  |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning |  | **x** |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes | **x** |  |  |
| 10 | Using and communicating a foreign language at a basic level |  | **x** |  |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules | **x** |  |  |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field |  | **x** |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):** **Signature**:  **Date:**

**ESOGU Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **SEMESTER** | SPRING |

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| --- | --- | --- | --- |
| **COURSE CODE** | 211412101 | **COURSE NAME** | TURKISH LANGUAGE II |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | **COURSE OF** | | | | | |
| **Theory** | | **Practice** | **Labratory** | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** |
| 2 | 2 | | 0 | 0 | | 0 | 2 | COMPULSORY ( ) ELECTIVE ( ) | | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | **Social Courses** | | | | | **Supportive Courses** | |
|  | |  | | | **x** | | | | |  | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | |
| **MID-TERM EXAM** | | | **Evaluation Type** | | | | | | **Quantity** | | **%** |
| 1st Mid-Term | | | | | | 1 | | 50 |
| 2nd Mid-Term | | | | | |  | |  |
| Quiz | | | | | |  | |  |
| Homework | | | | | |  | |  |
| Project | | | | | |  | |  |
| Report | | | | | |  | |  |
| Others (………) | | | | | |  | |  |
| **FINAL EXAM** | | |  | | | | | | 1 | | 50 |
| **PREREQUIEITE(S)** | | | None | | | | | | | | |
| **COURSE DESCRIPTION** | | | Turkish Language II course includes the subjects necessary to enable the student to make successful written and spoken applications in both literary and academic subjects. Information is given about written expression rules, writing types, and forms of expression. Written expression practices are carried out in order to improve written expression skills. For success in spoken expression, information about the rules of diction is given, and expression studies and applications are made. | | | | | | | | |
| **COURSE OBJECTIVES** | | | Among the objectives of the course are to improve the skills of our young people, who are educated in different fields in accordance with the conditions of the age, to express their ideas about any subject in writing, to enable them to learn the rules of diction and effective speaking in general terms, to raise awareness about diction and effective speaking, and to eliminate the deficiencies in language and expression. | | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | Developing the ability to use Turkish correctly and communication skills in business life. | | | | | | | | |
| **COURSE OUTCOMES** | | | To be able to express their feelings, thoughts, knowledge, expectations, experiences, verbally and in writing  To be able to use the Turkish equivalents of the terms of profession and science  To develop vocabulary  To be able to distinguish the types of writing  To be able to provide oral and written expression  To be able to read and understand Turkish science, art and culture publications  To recognize selected sample texts from the history of Turkish and world literature and thought  To be able to produce texts with “correct Turkish” in the field of science, art and culture | | | | | | | | |
| **TEXTBOOK** | | | Berrin Ar, İ. Alperen Biçer, Meriç Akpınar, Esin Ağca, Selin Şenaysoy, Halit Çelik, S. Alper Sökmen, Türk Dili I-II, Eskişehir Osmangazi Ün. Yayınları, Eskişehir, 2017 | | | | | | | | |
| **OTHER REFERENCES** | | | Prof.Dr. Mustafa Özkan, Dr. Osman Esin, Dr. Hatice Tören, Yükseköğretimde Türk Dili, Filiz Kitabevi, İstanbul, 2001. Prof.Dr. Kemal Yavuz, Prof. Dr. Kazım Yetiş, Prof. Dr. Necat Birinci, Üniversitede Türk Dili ve Kompozisyon Dersleri, Bayrak Yayınevi, İstanbul,1999. Prof Dr. Muharrem Ergin, Üniversiteler İçin Türk Dili, Bayrak Yayınevi, İstanbul, 2001. Porf. Dr. Zeynep Korkmaz, Prof. Dr. Ahmet Ercilasun, Prof.Dr. Hamza Zülfikar, Prof. Dr. İsmail Parlatır, Prof.Dr. Mehmet Akalın, Prof Dr. Tuncer Gülensoy, Prof Dr. Necat Birinci, Türk Dili ve Kompozisyon Bilgileri, Yargı Yayınevi, Ankara,2001. Prof. Dr. Şerif Aktaş, Yrd. Doç. Dr. Osman Gündüz, Yazılı ve Sözlü Anlatım, Akçağ Yayınevi, Ankara,2001. | | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | DVD, VCD, Barcovision – power point presentation, ESUZEM-OYS | | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Language- nation relationship Course aims and objectives, content, resources to be used and the presentation of the semester lesson plan. Problems of Turkish. |
| 2 | Spelling rules and practice. |
| 3 | Punctuation marks and its application. |
| 4 | What is narration? Features of narration. |
| 5 | Expression types, formats and application. |
| 6 | General information about the composition. |
| 7 | The plan and application to be used in composition writing. |
| 8 | Types of written composition (functional texts, review texts, intellectual texts, literary texts). Petition, report, official report, article, opinion column, essay. |
| 9 | Criticism, paper, thesis, biography, autobiography. |
| 10 | Monograph, memoir, travelogue, conversation, letter. |
| 11 | Story, novel, drama, screenplay. |
| 12 | Diction and effective speaking. |
| 13 | General expression disorders in Turkish and their correction. |
| 14 | Developing the student's ability to speak and write correctly and beautifully by making use of selected sample texts from Turkish and world literatures and the history of thought, and related practices. |
| 15,16 | **FINAL EXAM** |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques |  |  | **x** |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques |  |  | **x** |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems |  |  | **x** |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values |  |  | **x** |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication | **x** |  |  |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques |  |  | **x** |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach |  | **x** |  |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning | **x** |  |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes |  |  | **x** |
| 10 | Using and communicating a foreign language at a basic level |  |  | **x** |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules |  |  | **x** |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field |  |  | **x** |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):** **Signature**: **Date:**

**ESOGU Vocational School of Heath Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **SEMESTER** | SPRING |

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| --- | --- | --- | --- |
| **COURSE CODE** | 211412164 | **COURSE NAME** | ENGLISH II |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | |
| **Theory** | | **Practice** | | **Labratory** | | **Credit** | **ECTS** | **TYPE** | | **LANGUAGE** |
| 2 | 2 | | 0 | | 0 | | 0 | 2 | COMPULSORY (X) ELECTIVE ( ) | | ENGLISH |
| **COURSE CATAGORY** | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | **Support Courses** | |
|  | |  | | | |  | | | | X | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | **Evaluation Type** | | | | | **Quantity** | | **%** |
| 1st Mid-Term | | | | | 1 | | 40 |
| 2nd Mid-Term | | | | |  | |  |
| Quiz | | | | |  | |  |
| Homework | | | | |  | |  |
| Project | | | | |  | |  |
| Report | | | | |  | |  |
| Others (………) | | | | |  | |  |
| **FINAL EXAM** | | | |  | | | | | 1 | | 60 |
| **PREREQUIEITE(S)** | | | | None | | | | | | | |
| **COURSE DESCRIPTION** | | | | The Common European Framework (CEF) consists of content and activities for the acquisition of English language competencies at the Basic user (A1) level according to the assessment and reference system for languages. | | | | | | | |
| **COURSE OBJECTIVES** | | | | In the context of listening, reading, speaking and verbal expression, written expression skills, to provide students with a basis for their development in English language proficiency. | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | | The students will gain the competencies necessary to understand the basic English language resources related to the applications of the field in which they are studying. | | | | | | | |
| **COURSE OUTCOMES** | | | | At the end of the course, students  1. will be able to understand familiar words and very basic patterns about themselves, their families and their immediate surroundings when spoken slowly and clearly;  2. understand familiar names, words and very simple sentences in written texts such as catalogs, announcements or posters;  3. use simple phrases and sentences to describe where they live and people they know;  4. Make correspondence with short and simple sentences and fill out forms containing personal information. | | | | | | | |
| **TEXTBOOK** | | | | Essential Grammar in Use, 2007, Raymond Murphy, Cambridge University Press, Cambridge: UK | | | | | | | |
| **OTHER REFERENCES** | | | | Asynchronous narration videos and exercises offered to students at https://uzemoys.ogu.edu.tr | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | A computer with internet connection. UZEMOYS | | | | | | | |

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| --- | --- |
| **DERSİN HAFTALIK PLANI** | |
| **HAFTA** | **İŞLENEN KONULAR** |
| 1 | Past continuous, Past continuous and simple past |
| 2 | Comparatives, Superlatives |
| 3 | Present perfect 1 Present perfect 2 Present perfect 3 |
| 4 | Present perfect 4, For since ago Present perfect and simple past |
| 5 | Passive 1 What are you doing tomorrow? |
| 6 | I’m going to Will/shall 1 |
| 7 | Will/shall 2 Might |
| 8 | Can and could, Must /mustn’t/ don’t need to |
| 9 | Should Have to Would you like |
| 10 | It… I’m /I don’t etc. |
| 11 | infinitive/ gerund I want you to… I went to the shop to… |
| 12 | Do and make |
| 13 | And but or so because In on at (places) |
| 14 | Genel Tekrar |
| **15,16** | **YARIYIL SONU SINAVLARI** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire the knowledge and skills within the scope of medical documentation and secretarial services and to have the ability to use them in business life. |  | **x** |  |
| 2 | To have the ability to use basic computer programs and related technologies specific to medical documentation and secretarial services. |  | **x** |  |
| 3 | To inform the relevant persons and institutions by using the basic knowledge and skills on medical documentation and secretarial services, to be able to convey his thoughts and suggestions for solutions to problems verbally and in writing. |  | **x** |  |
| 4 | To be able to create, edit, save and archive medical documents. |  |  | **x** |
| 5 | To be able to report using the knowledge of medical terminology. |  | **x** |  |
| 6 | To have the ability to good communication and healthy human relations with people and organizations inside or outside the institution. |  |  | **x** |
| 7 | To be able to follow the information in the field and communicate with colleagues by using at least one foreign language at the basic level. |  | **x** |  |
| 8 | To develop organizational behavior suitable for medical secretarial services, to have the ability to manage personal and organizational image. |  | **x** |  |
| 9 | As a member of the healthcare team, to be able to perform the duties and responsibilities in harmony with teammates. |  |  | **x** |
| 10 | To have enough awareness on individual and public health, environmental protection and occupational safety. | **x** |  |  |
| 11 | To have awareness of patient rights, social responsibility, universal, social and professional ethics and to act in accordance with the legislation. |  |  | **x** |
| 12 | To follow the developments in the professional field and to improve oneself with the awareness of lifelong learning. |  | **x** |  |
| 1:None. 2:Partially Contribution. 3: Completely Contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**

** ESOGU Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **SEMESTER** | SPRING |

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| --- | --- | --- | --- |
| **COURSE CODE** | 211412166 | **COURSE NAME** | ADVANCED PHYSICS |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | |
| **Theory** | | **Practice** | **Laboratory** | | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** |
| 2 | 2 | | 0 | 0 | | | 2 | 4 | COMPULSORY ( ) ELECTIVE ( X ) | | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** | |
|  | |  | | | |  | | | | | X | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | | **Evaluation Type** | | | | | **Quantity** | | **%** |
| 1st Mid-Term | | | | | 1 | | 40 |
| 2nd Mid-Term | | | | |  | |  |
| Quiz | | | | |  | |  |
| Homework | | | | |  | |  |
| Project | | | | |  | |  |
| Report | | | | |  | |  |
| Others (………) | | | | |  | |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | | 60 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | | |
| **COURSE DESCRIPTION** | | | | | Coulomb Force, Electric Field, Electric Flux, Gauss's Law, Electric Potential, Capacitors, Current Generation and Resistance, Direct Current Circuits, Magnetic Field, Ampere's Law, Induction, Faraday's Law, Lenz's Law. | | | | | | | |
| **COURSE OBJECTIVES** | | | | | To provide students with the basic electricity and magnetism infrastructure necessary for their education. | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | | | To better understand the working principle of radiology devices by teaching the basic concepts of mechanics and their mathematical applications. | | | | | | | |
| **COURSE OUTCOMES** | | | | | To be able to formulate and interpret the data of physical properties encountered in the field courses | | | | | | | |
| **TEXTBOOK** | | | | | Fizik İlkeleri 2. F.J. Bueche, D.A. Jerde.,Çeviri Editörü Kemal Çolakoğlu; Palme Yayıncılık, 2010 (10.baskı) | | | | | | | |
| **OTHER REFERENCES** | | | | | D.Halliday,R.Resnick,J.Walker, Fiziğin Temelleri-1,John Wiley&Sons,INC,2005 (6.baskı) | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Computer, projector, UZEMOYS | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Electric charge |
| 2 | Electric force |
| 3 | Electric field |
| 4 | Gauss's aw |
| 5 | Electrical potential |
| 6 | Capacitance |
| 7 | Dielectrics |
| 8 | Current and resistance |
| 9 | Ohm's law |
| 10 | Direct current circuits |
| 11 | Magnetic field |
| 12 | Magnetic field sources |
| 13 | Induction current |
| 14 | Faraday's law |
| 15,16 | FINAL EXAM |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques |  | **x** |  |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques |  | **x** |  |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems |  | **x** |  |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values |  | **x** |  |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication |  |  | **x** |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques |  | **x** |  |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach |  | **x** |  |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning |  | **x** |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes |  |  | **x** |
| 10 | Using and communicating a foreign language at a basic level |  |  | **x** |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules |  | **x** |  |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field |  | **x** |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature: Date:**

**ESOGU** **Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **SEMESTER** | SPRING |

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| **COURSE CODE** | 211412167 | **COURSE NAME** | QUALITY MANAGEMENT IN HEALTH INSTITUTIONS |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | |
| **Theory** | | **Practice** | **Labratory** | | | **Credit** | **ECTS** | **TYPE** | | **LANGUAGE** |
| 2 | 2 | | 0 | 0 | | | 2 | 4 | COMPULSORY ( ) ELECTIVE (X ) | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** |
|  | |  | | | |  | | | | | x |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | |
| **MID-TERM** | | | | | **Evaluation Type** | | | | | **Quantity** | **%** |
| 1st Mid-Term | | | | | 1 | 40 |
| 2nd Mid-Term | | | | |  |  |
| Quiz | | | | |  |  |
| Homework | | | | |  |  |
| Project | | | | |  |  |
| Report | | | | |  |  |
| Others (………) | | | | |  |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | 60 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | |
| **COURSE DESCRIPTION** | | | | | The definition and characteristics of the concepts of quality, service and health services, the principles of total quality management, quality and standards in health services, quality standards in imaging services, quality measurement tools, quality improvement and teamwork in the process, accreditation in health, customer satisfaction in health services are explained. | | | | | | |
| **COURSE OBJECTIVES** | | | | | The aim of the course is to learn the concept of quality in general, to have information about the techniques, tools and methods used in measuring quality in health services and to have the ability to use these methods in practice. | | | | | | |
| **ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION** | | | | | The contribution of this course to vocational education is to know the quality, which is one of the most important issues in health services, to learn the understanding of total quality management, to ensure the formation of quality awareness through the effective use of quality measurement tools. | | | | | | |
| **COURSE OUTCOMES** | | | | | Define quality, service, health services, the concepts used in total quality management, compare quality practices in health institutions, summarize the training activities required for the placement of quality practices in health institutions, list the quality responsibilities of the units in health institutions and those at various levels, to be carried out for the establishment of quality practices in health institutions explains applications. | | | | | | |
| **TEXTBOOK** | | | | | Sağlık Hizmetlerinde Kalite Yönetimi**.** (2022). Ed.A. Uğur KEVENK. Ema Tıp Kitabevi Sağlık Kurumlarında Kalite ve Performans Yönetimi. (2022).Ed. Muhammet Çankaya. Nobel Akademi Yayıncılık | | | | | | |
| **OTHER REFERENCES** | | | | | sks-isiginda-saglikta-kalite-cilt-3pdf.pdf.Erişim:https://shgmkalitedb.saglik.gov.tr/Eklenti/3805/0/sks-isiginda-saglikta-kalite-cilt-3pdf.pdf | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Projector, computer, UZEMOYS | | | | | | |

|  |  |
| --- | --- |
| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Quality concept |
| 2 | Total quality Management |
| 3 | Service quality concept |
| 4 | Healthcare concept |
| 5 | The concept of quality in health care |
| 6 | Characteristics of quality in health care |
| 7 | Measuring quality in health care |
| 8 | Quality standards in healthcare |
| 9 | Quality standards in imaging services |
| 10 | Teamwork in quality improvement |
| 11 | Continuous improvement |
| 12 | Tools used in quality improvement |
| 13 | Accreditation, certification and quality awards in healthcare |
| 14 | Customer satisfaction in healthcare institutions |
| 15,16 | FINAL EXAM |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques |  | **x** |  |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques |  | **x** |  |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems |  | **x** |  |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values | **x** |  |  |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication | **x** |  |  |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques | **x** |  |  |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach |  | **x** |  |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning |  | **x** |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes | **x** |  |  |
| 10 | Using and communicating a foreign language at a basic level |  | **x** |  |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules |  | **x** |  |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field |  | **x** |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**



**ESOGU** **Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| --- | --- |
| **SEMESTER** | SPRING |

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| --- | --- | --- | --- | --- |
| **COURSE CODE** | 211412168 |  | **COURSE NAME** | GENERAL CHEMISTRY |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | |
| **Theory** | | **Practice** | **Labratory** | | | **Credit** | **ECTS** | **TYPE** | | **LANGUAGE** |
| 2 | 2 | | 0 | 0 | | | 2 | 4 | COMPULSORY ( ) ELECTIVE (X ) | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** |
|  | |  | | | |  | | | | | x |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | |
| **MID-TERM** | | | | | **Evaluation Type** | | | | | **Quantity** | **%** |
| 1st Mid-Term | | | | | 1 | 50 |
| 2nd Mid-Term | | | | |  |  |
| Quiz | | | | |  |  |
| Homework | | | | |  |  |
| Project | | | | |  |  |
| Report | | | | |  |  |
| Others (………) | | | | |  |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | 50 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | |
| **COURSE DESCRIPTION** | | | | | Chemistry and properties of matters, Atomic structures and atomic theories, Chemical compounds, Chemical reactions, Reactions between ions in aqueous solutions, Gases, Thermo chemistry, Distribution of electrons to the orbitals of an atom, Periodic table and some properties of atoms, Chemical bonding, Liquids and solids, Intermolecular attractions. Solutions and their physical properties, Chemical kinetics, Chemical equilibrium, Acids and bases, Equilibria in solutions of weak acids and bases, Solubility and complex ion equilibria, Thermodynamic, Electrochemistry. | | | | | | |
| **COURSE OBJECTIVES** | | | | | To emphases on the relationship of the properties of matter to atomic and molecular structures and make students to be able to comment on the behavior of these types of compounds in chemical reactions. | | | | | | |
| **ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION** | | | | | It is to provide information about the important principles and concepts of chemistry that will form the basis of medical imaging health technician training. | | | | | | |
| **COURSE OUTCOMES** | | | | | 1. Understanding the basic concepts in chemistry, 2. Developing problem solving and correct thinking skills, 3. Making progress in professional fields by making chemistry a part of life | | | | | | |
| **TEXTBOOK** | | | | | Petrucci, R., Harwood, W.S. and Herring, F.G. (2015).Genel Kimya, 10. Baskı, Palme Yayıncılık, Ankara. | | | | | | |
| **OTHER REFERENCES** | | | | | Jones, L. and Atkins, P. (2016). Chemistry, 7th Edition, W.H.Freeman and Company, New York, USA.  Ebbing, D.D., Wentworth, R.A.D. and Birk, J.P. (1995). Introductory Chemistry, Houghton Mifflin Company, USA. | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Computer, projection, UZEMOYS | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Chemistry and properties of matters, Atomic structures and atomic theories |
| 2 | Chemical compounds, Chemical reactions |
| 3 | Reactions between ions in aqueous solutions |
| 4 | Gases |
| 5 | Distrubition of electrons to the orbitals of an atom |
| 6 | Periodic table and some properties of atoms |
| 7 | Chemical bonding |
| 8 | Liquids and solids, Intermolecular attractions |
| 9 | Solutions and their physical properties, Chemical kinetics |
| 10 | Chemical equilibrium |
| 11 | Acids and bases |
| 12 | Solubility |
| 13 | Complex ion equilibria |
| 14 | Electrochemistry, Thermodynamic |
| 15,16 | FINAL EXAM |

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| --- | --- | --- | --- | --- |
| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques |  | **x** |  |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques |  | **x** |  |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems |  | **x** |  |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values |  |  | **x** |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication |  |  | **x** |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques |  |  | **x** |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach |  |  | **x** |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning |  | **x** |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes |  |  | **x** |
| 10 | Using and communicating a foreign language at a basic level |  | **x** |  |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules |  |  |  |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field |  |  | **x** |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**

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| https://ogu.edu.tr/files/duyuru/9ff77656-8e6a-4c44-98b9-5f236a699de2/ESOG%C3%9C_Son_logo.jpg | **ESOGU Vocational School of Health Services**  **Department of Medical Services and Techniques**  **Medical Imaging Techniques Program**  **Course Information Form** |

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| **TERM** | SPRING |

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| **COURSE CODE** | 211412158 | **COURSE NAME** | FIRST AID |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | **COURSE OF** | | | | | | |
| **Theory** | | **Practice** | **Laboratory** | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** | |
| 2 | 1 | | 0 | 0 | | 0 | 1 | ZORUNLU ( ) SEÇMELİ ( X ) | | | TÜRKÇE | |
| **COURSE CATAGORY** | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | **Social Courses** | | | | | **Supportive Courses** | | |
|  | | X | | |  | | | | |  | | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | **Evaluation Type** | | | | | **Quantity** | | | **%** |
| 1st Mid-Term | | | | | 1 | | | 40 |
| 2nd Mid-Term | | | | |  | | |  |
| Quiz | | | | |  | | |  |
| Homework | | | | |  | | |  |
| Project | | | | |  | | |  |
| Report | | | | |  | | |  |
| Others (………) | | | | |  | | |  |
| **FINAL EXAM** | | | |  | | | | | 1 | | | 60 |
| **PREREQUIEITE(S)** | | | | None | | | | | | | | |
| **COURSE DESCRIPTION** | | | | Definition, purpose and importance of first aid; definition of first aider and how it should be; triage, accidents requiring first aid, bleeding, injuries, burns, frostbite, sunstroke, poisoning, drowning, fracture-dislocations, cardiac-respiratory arrest, airway obstructions, first aid applications in unconsciousness, transportation of the injured, basic life support, Heimlich maneuver, use of automatic external defibrillator | | | | | | | | |
| **COURSE OBJECTIVES** | | | | To give information about the first aid applications to be done in emergency situations and to gain skills | | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | | To teach practical and conscious intervention in order to save life, prevent worsening of the situation and ensure recovery in situations requiring first aid | | | | | | | | |
| **COURSE OUTCOMES** | | | | 1. Gaining first aid skills in cases of sudden illness and accident that may arise in the professional field.  2. To gain the ability to act with the responsibility and awareness of providing appropriate first aid in case of an accident or illness by taking first aid training.  3.To gain the ability to communicate with patients and health personnel. | | | | | | | | |
| **TEXTBOOK** | | | | TATD Güncel İlkyardım Kılavuzu. (2019). Ed. Özgür Karcıoğlu. Hipokrat Kitabevi.  İlk Yardım Kitabı. (2022). Mehmet Doğan, Emre Bülbül. Ankara: Nobel Akademik Yayıncılık | | | | | | | | |
| **OTHER REFERENCES** | | | | Sağlık Bakanlığı Acil Sağlık Hizmetleri Genel Müdürlüğü. Temel. İlk Yardım Uygulamaları Kitabı. 2011. | | | | | | | | |
| **TOOLS AND MATERIALS REQUIRED IN THE COURSE** | | | | Barcovision – power point presentation, model, first aid equipment, UZEM OYS | | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | General first aid information |
| 2 | Basic life support adult |
| 3 | Basic life support infant-child |
| 4 | Causes of airway obstructions and first aid adult |
| 5 | Causes of airway obstructions and first aid infant-child |
| 6 | First aid for bleeding |
| 7 | First aid for injuries |
| 8 | First aid for burns, heat stroke and frostbite |
| 9 | First aid for poisoning, first aid for animal bites |
| 10 | Use of automatic external defibrillator |
| 11 | First aid for fractures, dislocations and sprains |
| 12 | First aid for unconsciousness |
| 13 | First aid for choking |
| 14 | Patient handling techniques |
| 15,16 | FINAL EXAM |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques |  |  | **x** |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques |  |  | **x** |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems |  |  | **x** |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values |  | **x** |  |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication |  |  | **x** |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques |  |  | **x** |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach |  |  | **x** |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning | **x** |  |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes | **x** |  |  |
| 10 | Using and communicating a foreign language at a basic level |  | **x** |  |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules |  |  | **x** |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field |  |  | **x** |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**

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| https://ogu.edu.tr/files/duyuru/9ff77656-8e6a-4c44-98b9-5f236a699de2/ESOG%C3%9C_Son_logo.jpg**ESOGU Vocational School of Health Services**  **Department of Medical Services and Techniques**  **Medical Imaging Techniques Program**  **Course Information Form**   |  |  | | --- | --- | | **SEMESTER** | SPRING |  |  |  |  |  | | --- | --- | --- | --- | | **COURSE CODE** | 211412100 | **COURSE NAME** | PHYSICAL EDUCATION II |      |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | **COURSE OF** | | | | | **Theory** | | **Practice** | **Labratory** | | **Credit** | **ECTS** | **TYPE** | **LANGUAGE** | | 2 | 1 | | ---- | ---- | | ---- | 1 | COMPULSORY ( ) ELECTIVE (X) | TURKISH | | **COURSE CATAGORY** | | | | | | | | | | | **Basic Vocational Courses** | | **Basic Field Courses** | | | **Social Courses** | | | | **Supportive Courses** | |  | |  | | | (X) | | | |  | | **ASSESSMENT CRITERIA** | | | | | | | | | | | **MID-TERM** | | | | **Evaluation Type** | | | | **Quantity** | **%** | | 1st Mid-Term | | | | 1 | 40 | | 2nd Mid-Term | | | |  |  | | Quiz | | | |  |  | | Homework | | | |  |  | | Project | | | |  |  | | Report | | | |  |  | | Others (………) | | | |  |  | | **FINAL EXAM** | | | |  | | | | 1 | 60 | | **PREREQUIEITE(S)** | | | | None | | | | | | | **COURSE DESCRIPTION** | | | | Physical education; running, joint and muscle groups convenient to theirs level, sport branch, basketball, volleyball, handball ,football, field measures and rules of game, sport benefits to our health; health, first aid, matches in class. | | | | | | | **COURSE OBJECTIVES** | | | | The ability of having knowledge concerning the orders of the lecture. The ability of running all the organs and systems to convenience of theirs level.  The ability of improving the nerve muscle and joint coordinating.  The ability of having basic knowledge, skill, manner and habits concerning physical education and sport  Take responsibility and duty, to go with leader and the ability of doing leadership  Playing amicably and competition appreciating the winner acceptance of loosing, and can be object to trick and injustice.  Having knowledge about sport, vehicle and facilities and can use this. | | | | | | | **ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION** | | | | Contributing to academic success by strengthening oneself physically and spiritually by making use of free time with sports activities. | | | | | | | **COURSE OUTCOMES** | | | | The ability of growing health, happy, developed aspect of physical and psychological, self confident individuals who have the sense competitioning amicably. | | | | | | | **TEXTBOOK** | | | | Physical Education and Sports Science (Ali Niyazi İnal)2020 | | | | | | | **OTHER REFERENCES** | | | | Lifetime Sport (Prof. Dr. Erdal Zorba)2017, Recreation Leisure Time (Prof. Dr. Şükran Kılbaş)2017, Educational Games for the Branches( Erol Doğan) 2020, Outdoor Sports 1(Oktay Kızar, Harun Genç, İdris Kayantaş, Mehmet Kargün) 2019, Outdoor Sports 2 (Oktay Kızar, Harun Genç, İdris Kayantaş, Mehmet Kargün) 2018, Physical Activity ve Physical Fitness ( Erdal Zorba Özcan Saygın) 2013,  <https://www.tff.org/default.aspx?pageID=733>, <https://www.tcf.gov.tr/>, <https://badminton.gov.tr/>, <https://www.tmtf.gov.tr/>, <https://www.ttf.org.tr/>, <https://www.tyf.gov.tr/>, http://www.pilatesfederasyonu.com/pilates-hakkinda-her-sey | | | | | | | **TOOLS AND EQUIPMENTS REQUIRED** | | | | Barcovision - power point presentation, materials in the gym, ESUZEM-OYS | | | | | |  |  |  | | --- | --- | | **COURSE SYLLABUS** | | | **WEEK** | **TOPICS** | | 1 | Giving general knowledge about the subject of physical education II. Lifelong sport | | 2 | Free time and using free time | | 3 | Warm-up in physical education and sports | | 4 | Stretching in physical education and sports | | 5 | Educational games in physical education and sports | | 6 | Futsal pitch and game rules | | 7 | Tennis court and game rules | | 8 | Table Tennis court and game rules | | 9 | Badminton court and game rules | | 10 | Giving basic information about swimming | | 11 | Giving basic information about gymnastics | | 12 | Giving basic information about fitness | | 13 | Giving basic information about pilates | | 14 | Outdorr sports. | | 15-16 | FINAL EXAM |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** | | 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques |  |  | **x** | | 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques |  |  | **x** | | 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems |  |  | **x** | | 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values |  |  | **x** | | 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication |  |  | **x** | | 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques |  |  | **x** | | 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach |  |  | **x** | | 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning |  | **x** |  | | 9 | To act in accordance with occupational safety, patient safety and quality management processes |  |  | **x** | | 10 | Using and communicating a foreign language at a basic level |  |  | **x** | | 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules |  |  | **x** | | 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field |  |  | **x** | | **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |   **Instructor(s):**  **Signature**: **Date:**  **logoo**  **ESOGU Vocational School of Health Services**  **Department of Medical Services and Techniques**  **Medical Imaging Techniques Program**  **Course Information Form**   |  |  | | --- | --- | | **SEMESTER** | SPRING |  |  |  |  |  | | --- | --- | --- | --- | | **COURSE CODE** | 211012113 | **COURSE NAME** | OCCUPATIONAL HEALTH AND SAFETY II |      |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | | Theory | | Practice | | Laboratory | | Credit | ECTS | | TYPE | LANGUAGE | | 2 | 1 | | 0 | | 0 | | 0 | 1 | | COMPULSORY ( )  ELECTIVE ( X ) | TURKISH | | **COURSE CATAGORY** | | | | | | | | | | | | | **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** | |  | |  | | | |  | | | | | **x** | | **ASSESSMENT CRITERIA** | | | | | | | | | | | | | **MID-TERM** | | | | **Evaluation Type** | | | | | **Quantity** | | **%** | | Mid-Term | | | | | 1 | | 40 | | Quiz | | | | |  | |  | | Homework | | | | |  | |  | | Project | | | | |  | |  | | Report | | | | |  | |  | | Others (………) | | | | |  | |  | |  | | | | |  | |  | | **FINAL EXAM** | | | |  | | | | | 1 | | 60 | | **PREREQUIEITE(S)** | | | | None | | | | | | | | | **COURSE DESCRIPTION** | | | | Occupational healthy and safety definition, importance, historical development and basic concepts of the subject, Occupational safety culture, OHS legislation, Hazard sources and classification, Occupational accidents, Occupational diseases, Impact on employees of the work environment (physical, chemical, psychosocial, etc. factors), Basic Occupational safety in workplaces, Risk assessment, Personal protective Equipment (PPE), Health and safety signs, Fire, The relevant legislation | | | | | | | | | **COURSE OBJECTIVES** | | | | The main objective of the course is to teach prevention methods of occupational accidents an occupational diseases in the workplace. | | | | | | | | | **ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION** | | | | Knowing the possible precautions against accidents and occupational diseases in the workplace to protect human health and improve the efficiency of labor | | | | | | | | | **COURSE OUTCOMES** | | | | 1. Ability to interpretation the regulation on Occupational Health and Safety  2. To improve the physical conditions of the workplace, develop alternative solutions and solving.  3. Ability to identify hazards and risks existing in the workplace.  4. Ability to apply the concept of risk assessment | | | | | | | | | **TEXTBOOK** | | | | 1.Kahya, E., 2022, İş Güvenliği, ESOGÜ Yayın No :246, Eskişehir.  2.6331 Sayılı İş Sağlığı ve Güvenliği Kanunu. | | | | | | | | | **OTHER REFERENCES** | | | | 1.Yiğit, A., İş Güvenliği, 2013, Dora basım-Yayın Dağıtım Ltd. Şti, Bursa. 2.Ayır, M. ve Ergül, M., 2006, İş Güvenliği ve Risk Değerlendirme Uygulamaları, Bursa. 3.Dizdar, E.N., 2008, İş Güvenliği, 4.Baskı, Murathan Yayınevi, Trabzon. 4.Esin, A., 2006, Yeni Mevzuatın Işığında İş Sağlığı ve Güvenliği*,*  TMMO MMO Yayın No:MMO/363/2, Ankara. | | | | | | | | | **TOOLS AND EQUIPMENTS REQUIRED** | | | | Computer, projection equipment, personal protective equipment, UZEMOYS | | | | | | | |  |  |  | | --- | --- | | **COURSE SYLLABUS** | | | **WEEK** | **TOPICS** | | 1 | Course scope, execution, evaluation | | 2 | Occupational Safety (defines, importance, etc.) | | 3 | Occupational Safety Culture | | 4 | OHS legislation | | 5 | Occupational accidents (agents, type, performance criteria) and basic safety precautions | | 6 | Occupational accidents (Formation theories, statistics, investigations) and basic safety precautions | | 7 | Occupational diseases | | 8 | Risk Factors (physical, chemical, biological) | | 9 | Risk Factors (psychosocial and ergonomic) | | 10 | Basic safety rules in workplaces | | 11 | Risk Assesment | | 12 | Personal Protective Equipment | | 13 | Health and safety signs | | 14 | Fire | | 15,16 | FINAL EXAM |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** | | 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques |  |  | **x** | | 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques |  |  |  | | 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems |  | **x** |  | | 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values | **x** |  |  | | 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication |  | **x** |  | | 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques |  | **x** |  | | 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach |  |  | **x** | | 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning |  | **x** |  | | 9 | To act in accordance with occupational safety, patient safety and quality management processes | **x** |  |  | | 10 | Using and communicating a foreign language at a basic level |  | **x** |  | | 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules |  | **x** |  | | 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field |  | **x** |  | | **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |   **Instructor(s):**  **Signature**: **Date:** |



**ESOGU** **Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **SEMESTER** | SPRING |

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| **COURSE CODE** | 211412165 | **COURSE NAME** | INTERNSHIP |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | |
| **Theory** | | **Practice** | **Labratory** | | | **Credit** | **ECTS** | **TYPE** | | **LANGUAGE** |
| 2 | 0 | | 2 | 0 | | | 0 | 6 | COMPULSORY (X) ELECTIVE ( ) | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** |
| X | |  | | | |  | | | | |  |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | |
| **MID-TERM** | | | | | **Evaluation Type** | | | | | **Quantity** | **%** |
| 1st Mid-Term | | | | |  |  |
| 2nd Mid-Term | | | | |  |  |
| Quiz | | | | |  |  |
| Homework | | | | |  |  |
| Project | | | | |  |  |
| Report | | | | | 1 | 100 |
| Others (………) | | | | |  |  |
| **FINAL EXAM** | | | | |  | | | | | 1 |  |
| **PREREQUIEITE(S)** | | | | | None | | | | | | |
| **COURSE DESCRIPTION** | | | | | Have students practice all imaging models in the radiology department. | | | | | | |
| **COURSE OBJECTIVES** | | | | | To put into practice the theoretical knowledge that students have taken in the field of medical imaging and to provide students with skills in the field. To enable students to adapt to the practical dimension from the theoretical dimension as they have to work in cooperation in the team at the internship places. | | | | | | |
| **ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION** | | | | | Students will be able to develop behavior by gaining field experience in medical imaging services before starting to work professionally by applying their theoretical knowledge and skills in the health institutions where they do internship. | | | | | | |
| **COURSE OUTCOMES** | | | | | 1. Gaining professional practice skills by examining the processes in public or private sector health institutions related to the field  2. To learn basic application methods in order to respond to changes in professional practices and scientific and technological developments.  3. Selecting and effectively using modern techniques, tools and information technologies required for applications related to the field | | | | | | |
| **TEXTBOOK** | | | | | - | | | | | | |
| **OTHER REFERENCES** | | | | | **-** | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Equipment in the relevant health institution where she did her internship | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Making applications in medical imaging units in public or private sector health institutions |
| 2 | Making applications in medical imaging units in public or private sector health institutions |
| 3 | Making applications in medical imaging units in public or private sector health institutions |
| 4 | Making applications in medical imaging units in public or private sector health institutions |
| 5 | Making applications in medical imaging units in public or private sector health institutions |
| 6 | Making applications in medical imaging units in public or private sector health institutions |
| 7 | Making applications in medical imaging units in public or private sector health institutions |
| 8 | Making applications in medical imaging units in public or private sector health institutions |
| 9 | Making applications in medical imaging units in public or private sector health institutions |
| 10 | Making applications in medical imaging units in public or private sector health institutions |
| 11 | Making applications in medical imaging units in public or private sector health institutions |
| 12 | Making applications in medical imaging units in public or private sector health institutions |
| 13 | Making applications in medical imaging units in public or private sector health institutions |
| 14 | Making applications in medical imaging units in public or private sector health institutions |
| 15,16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques | **x** |  |  |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques | **x** |  |  |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems | **x** |  |  |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values | **x** |  |  |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication | **x** |  |  |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques | **x** |  |  |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach | **x** |  |  |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning | **x** |  |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes | **x** |  |  |
| 10 | Using and communicating a foreign language at a basic level |  | **x** |  |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules | **x** |  |  |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field | **x** |  |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature: Date:**

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**ESOGU** **Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **SEMESTER** | FALL |

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| **COURSE CODE** | 211413257 | **COURSE NAME** | PHARMACOLOGY OF RADIOCONTRAST DRUGS |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | |
| **Theory** | | **Practice** | **Labratory** | | | **Credit** | **ECTS** | **TYPE** | | **LANGUAGE** |
| 3 | 2 | | 0 | 0 | | | 2 | 3 | COMPULSORY (X) ELECTIVE ( ) | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** |
|  | | x | | | |  | | | | |  |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | |
| **MID-TERM** | | | | | **Evaluation Type** | | | | | **Quantity** | **%** |
| 1st Mid-Term | | | | | 1 | 40 |
| 2nd Mid-Term | | | | |  |  |
| Quiz | | | | |  |  |
| Homework | | | | |  |  |
| Project | | | | |  |  |
| Report | | | | |  |  |
| Others (practice) | | | | |  |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | 60 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | |
| **COURSE DESCRIPTION** | | | | | Teaching basic pharmacology (sources of obtaining drugs, pharmacokinetics, pharmacodynamics, toxicology) information. To teach the classification of contrast drugs, indications for use, toxic effects and emergency approach against toxic effects. | | | | | | |
| **COURSE OBJECTIVES** | | | | | The aim of this course is to provide the student with knowledge and skills about basic concepts in pharmacology, radiocontrast substances and the undesirable effects that may develop during the use of these substances and the precautions to be taken. | | | | | | |
| **ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION** | | | | | Temel farmakoloji bilgilerine sahip olma ve tıbbi görüntülemede kullanılan kontrastlı ilaçların özelliklerini ve bu ilaçların uygulanmasına bağlı gelişebilecek acil durumlar ve bu acil durumlara yaklaşımın öğrenilmesi. | | | | | | |
| **COURSE OUTCOMES** | | | | | Defines basic pharmacology concepts. Learns the mechanisms of radiocontrast agents used in medical imaging, recognizes the undesirable effects and possible reactions and takes the necessary precautions. | | | | | | |
| **TEXTBOOK** | | | | | Dökmeci, İ., Dökmeci, H. (2015); Sağlık Yüksekokulları İçin Farmakoloji. İstanbul Tıp Kitabevi.. Kayaalp, O. (2020). Rasyonel Tedavi Yönünden Tıbbi Farmakoloji (Cilt: 1). Pelikan Yayınevi. Kayaalp, O. (2021). Akılcıl Tedavi Yönünden Tıbbi Farmakoloji 1-2. Pelikan Yayınevi | | | | | | |
| **OTHER REFERENCES** | | | | | Brunton, L., Knollmann, B. & Randa H.D. (2022). Goodman and Gilman's The Pharmacological Basis of Therapeutics, 14th Edition. McGraw Hill Medical Books | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Computer, projection, model, UZEMOYS. | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Basic concepts of pharmacology |
| 2 | Sources of medicines |
| 3 | Pharmaceutical forms of drugs |
| 4 | Routes of administration of drugs |
| 5 | Pharmacokinetics of drugs |
| 6 | Pharmacodynamic effects of drugs |
| 7 | Factors that change the effect of drugs |
| 8 | Toxic effects of drugs |
| 9 | Acute poisoning treatment |
| 10 | Classification of radiocontrast drugs |
| 11 | Features of administration of radiocontrast drugs |
| 12 | Methods of administration of radiocontrast drugs |
| 13 | Side effects and toxic effects of radiocontrast drugs |
| 14 | Harmful effects and treatment approaches due to the administration of radiocontrast drugs |
| 15,16 | FINAL EXAM |

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| --- | --- | --- | --- | --- |
| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques |  | **x** |  |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques |  |  | **x** |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems | **x** |  |  |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values |  | **x** |  |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication |  | **x** |  |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques | **x** |  |  |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach |  | **x** |  |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning |  | **x** |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes | **x** |  |  |
| 10 | Using and communicating a foreign language at a basic level |  | **x** |  |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules | **x** |  |  |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field | **x** |  |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**

**ESOGU Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **SEMESTER** | FALL |

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| --- | --- | --- | --- |
| **COURSE CODE** | 211413259 | **COURSE NAME** | KNOWLEDGE OF DISEASE |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | |
| **Theory** | | **Practice** | **Laboratory** | | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** |
| 3 | 2 | | 0 | 0 | | | 2 | 3 | COMPULSORY ( **X**) ELECTIVE ( ) | | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** | |
|  | | X | | | |  | | | | |  | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | | **Evaluation Type** | | | | | **Quantity** | | **%** |
| 1st Mid-Term | | | | | 1 | | 40 |
| 2nd Mid-Term | | | | |  | |  |
| Quiz | | | | |  | |  |
| Homework | | | | |  | |  |
| Project | | | | |  | |  |
| Report | | | | |  | |  |
| Others (………) | | | | |  | |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | | 60 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | | |
| **COURSE DESCRIPTION** | | | | | Basic concepts and terms related to disease and disease, digestive system diseases, respiratory system diseases, blood diseases, circulatory system diseases, excretory system diseases, endocrine system diseases, genital system diseases, sensory organs diseases, skin diseases, infectious diseases, neurological disease and psychiatric disease | | | | | | | |
| **COURSE OBJECTIVES** | | | | | It is aimed to define general terms related to disease and illness, to transfer basic information about body systems and diseases related to these systems, diagnosis and treatment methods and terminology to students. | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | | | It is to have general information about the possible diseases of the sick individuals that they will meet during the diagnosis process. | | | | | | | |
| **COURSE OUTCOMES** | | | | | Classifies the diseases according to the International Classification of Diseases, defines the main diseases. Distinguish the basic diagnostic methods, signs and symptoms and main treatment methods of diseases. | | | | | | | |
| **TEXTBOOK** | | | | | Çelik, S. ve Yeşilbalkan, O.U. (2015). Dahili ve Cerrahi Hastalıklar Hemşireliği. Nobel Kitabevi.  Polat, M. ve Gülay, M.Ş.(2015). Hastalıklar Bilgisi Ders Kitabı. Dünya Kitabevi. | | | | | | | |
| **OTHER REFERENCES** | | | | | AUZEF Temel Hastalıklar Bilgisi Ders Kitabı.2022. | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Projector, Computer, UZEMOYS | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Definition of illness and health |
| 2 | Circulatory system diseases |
| 3 | Respiratory system diseases |
| 4 | Digestive system diseases |
| 5 | Excretory system disease |
| 6 | Endocrine system disease |
| 7 | Blood and blood-forming organ disease |
| 8 | Skeletal system disease |
| 9 | Neurological diseases |
| 10 | İnfectious disease |
| 11 | Eye disease |
| 12 | Ear and nose disease |
| 13 | Skin disease |
| 14 | Psychiatric disease |
| 15,16 | FINAL EXAM |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** | |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques | **x** |  |  | |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques |  | **x** |  | |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems | **x** |  |  | |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values | **x** |  |  | |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication | **x** |  |  | |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques | **x** |  |  | |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach | **x** |  |  | |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning | **x** |  |  | |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes | **x** |  |  | |
| 10 | Using and communicating a foreign language at a basic level |  | **x** |  | |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules | **x** |  |  | |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field | **x** |  |  | |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**

**ESOGU Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **SEMESTER** | FALL |

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| **COURSE CODE** | 211413260 | **COURSE NAME** | RADIOLOGICAL IMAGING PHYSICS I |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | |
| **Theory** | | **Practice** | **Laboratory** | | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** |
| 3 | 2 | | 4 | 0 | | | 4 | 6 | COMPULSORY ( **X**) ELECTIVE ( ) | | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** | |
| x | |  | | | |  | | | | |  | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | | **Evaluation Type** | | | | | **Quantity** | | **%** |
| 1st Mid-Term | | | | | 1 | | 40 |
| 2nd Mid-Term | | | | |  | |  |
| Quiz | | | | |  | |  |
| Homework | | | | |  | |  |
| Project | | | | |  | |  |
| Report | | | | |  | |  |
| Others (………) | | | | |  | |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | | 60 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | | |
| **COURSE DESCRIPTION** | | | | | - Physical principles of x-ray equipment  - Physical rules in radiographic techniques | | | | | | | |
| **COURSE OBJECTIVES** | | | | | The aim of this course is physical interactions in radiographic procedures. | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | | | 1. The student will know the physics principles of all radiographic operations  2. The student will use radiographic devices in an easy and convenient way. | | | | | | | |
| **COURSE OUTCOMES** | | | | | To teach physical interactions and physical principles of x-ray devices in radiographic procedures. | | | | | | | |
| **TEXTBOOK** | | | | | Temel Tıbbi (Radyolojik) Görüntüleme Tekniği. 2016. İbrahim Özdemir. Hiperlink Yayınları Tıbbi Cihaz ve Malzemeler. 2018. Ed. Mustafa Solak. T.C. Anadolu Üniversitesi Yayını No: 3219 Açıköğretim Fakültesi Yayını No: 2090 https://www.aof.tc/tibbi-cihaz-ve-malzemeler-sak301u-ders-kitabi.html | | | | | | | |
| **OTHER REFERENCES** | | | | | Temel Radyoloji Tekniği. 2016. Tamer Kaya, Ragıp Özkan, Baki Adapınar. 5. Baskı. Nobel Tıp. | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Projector, Text pen, Computer, UZEMOYS | | | | | | | |

|  |  |
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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Discovery and history of X-rays |
| 2 | Structure of the control console |
| 3 | Operation of the control console |
| 4 | High voltage generator and circuits |
| 5 | Checking the X-ray tube |
| 6 | Causes of malfunctions of the X-ray tube |
| 7 | Atomic-level X-ray generation |
| 8 | Quality of X-rays |
| 9 | Quantity of X-rays |
| 10 | Control and blocking of scattered radiation |
| 11 | Absorption of X-rays (Absorption) |
| 12 | Ranforsors |
| 13 | Radiography film structure |
| 14 | Radiography film formation |
| 15,16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques | **X** |  |  |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques | **X** |  |  |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems |  | **X** |  |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values | **X** |  |  |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication |  | **X** |  |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques | **X** |  |  |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach | **X** |  |  |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning |  | **X** |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes | **X** |  |  |
| 10 | Using and communicating a foreign language at a basic level |  | **X** |  |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules | **X** |  |  |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field | **X** |  |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**



**ESOGU** **Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **SEMESTER** | FALL |

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| **COURSE CODE** | 211413261 | **COURSE NAME** | MEDICAL IMAGING III |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | |
| **Theory** | | **Practice** | **Labratory** | | | **Credit** | **ECTS** | **TYPE** | | **LANGUAGE** |
| 3 | 2 | | 4 | 0 | | | 4 | 4 | COMPULSORY (X) ELECTIVE ( ) | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** |
| X | |  | | | |  | | | | |  |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | |
| **MID-TERM** | | | | | **Evaluation Type** | | | | | **Quantity** | **%** |
| 1st Mid-Term | | | | | 1 | 30 |
| 2nd Mid-Term | | | | |  |  |
| Quiz | | | | |  |  |
| Homework | | | | |  |  |
| Project | | | | |  |  |
| Report | | | | |  |  |
| Others (practice) | | | | | 1 | 10 |
| **FINAL EXAM** | | | | |  | | | | | 1 | 60 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | |
| **COURSE DESCRIPTION** | | | | | Direct graphy, fluoroscopy, computarized tomography (CT), magnetic rezonans imahing (MRG) in diseases | | | | | | |
| **COURSE OBJECTIVES** | | | | | Knowledge and ability are gained about diseases imaging at direct graphy, fluoroscopy, CT, MRG in diseases | | | | | | |
| **ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION** | | | | | Students will learn direct graphy , fluoroscopy, CT and MRG techniques in diseases. | | | | | | |
| **COURSE OUTCOMES** | | | | | To learn direct graphy, fluoroscopy, CT and MRG techniques in diseases. | | | | | | |
| **TEXTBOOK** | | | | | Kaya T., Özkan R., Adapınar B.(2016). Temel Radyoloji Tekniği 5. Baskı  Nobel Tıp Kitabevi, 2016.Clark'ın Radyoloji Teknikerleri için El Kitabı. (2022). 2. Baskı. Ed. Lütfü İhsan Kuru, Ahmet Aslan. Güneş Tıp Kitapevleri. | | | | | | |
| **OTHER REFERENCES** | | | | | Özdemir, İ. (2015). Temel Tıbbi (Radyolojik) Görüntüleme Tekniği. Hiperlink Yayınları | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Computer, projection, radiological instruments and equipment, UZEMOYS. | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Cardiac system radiological imaging |
| 2 | Radiological imaging in circulatory system diseases |
| 3 | Radiological imaging in respiratory system diseases |
| 4 | Radiological imaging in central nervous system diseases |
| 5 | Radiological imaging in digestive system diseases (Upper GIS) |
| 6 | Radiological imaging in digestive system diseases (Lower GIS) |
| 7 | Radiological imaging in digestive system diseases (Liver-Pancreas-Gallbladder-Spleen) |
| 8 | Radiological imaging in urinary system diseases |
| 9 | Radiological imaging in male genital tract diseases |
| 10 | Radiological imaging in female genital tract diseases |
| 11 | Radiological imaging-bones in skeletal system diseases |
| 12 | Radiological imaging in skeletal system diseases-muscles and joints |
| 13 | Radiological imaging in breast diseases |
| 14 | Radiological imaging in endocrine system diseases |
| 15,16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques | **x** |  |  |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques | **X** |  |  |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems | **x** |  |  |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values | **x** |  |  |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication |  | **x** |  |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques | **x** |  |  |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach | **x** |  |  |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning |  | **x** |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes | **x** |  |  |
| 10 | Using and communicating a foreign language at a basic level |  | **x** |  |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules | **x** |  |  |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field | **x** |  |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**

 **ESOGU Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **SEMESTER** | FALL |

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| **COURSE CODE** | 211413262 | **COURSE NAME** | ATATÜRK'S PRINCIPLES AND HISTORY OF REVOLUTION I |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | |
| **Theory** | | **Practice** | | **Labratory** | | **Credit** | **ECTS** | **TYPE** | | **LANGUAGE** |
| 3 | 2 | | 0 | | 0 | | 2 | 2 | COMPULSORY (x ) ELECTIVE ( ) | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | |
| **Basic vocational courses** | | **Basic Field Courses** | | | | **Social Science** | | | | | **Support Courses** |
|  | |  | | | |  | | | | | X |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | |
| **MID-TERM** | | | | **Evaluation Type** | | | | | | **Quantity** | **%** |
| 1st Mid-Term | | | | | | 1 | 40 |
| 2nd Mid-Term | | | | | |  |  |
| Quiz | | | | | |  |  |
| Homework | | | | | |  |  |
| Project | | | | | |  |  |
| Report | | | | | |  |  |
| Others (………) | | | | | |  |  |
| **FINAL EXAM** | | | |  | | | | | | 1 | 60 |
| **PREREQUIEITE(S)** | | | | None | | | | | | | |
| **COURSE DESCRIPTION** | | | | In terms of history, the basis of the Turkish Revolution, the historical development of theTurkish revolution, time is compared in the indexial axis, examines the concepts of full independence and national sovereignty, the struggle is transferred to young individuals. | | | | | | | |
| **COURSE OBJECTIVES** | | | | To ensure that the students grow up as individuals who are committed to the principles and revolutions of Atatürk, adopting and preserving secular, democratic and contemporary values. | | | | | | | |
| **ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION** | | | | In the process of completing personality development, the process of awareness is completed with the concepts of full independence and national sovereignty. In general, the course has adopted a critical approach that is self-fulfilling, cultured, sensitive to the agenda, and contributes to the process of constructive and solution-oriented individuals. | | | | | | | |
| **COURSE OUTCOMES** | | | | An ability to apply knowledge of social sciences, Ability to analyze, evaluate and design data, Ability to do group work, An ability to lead an interdisciplinary team Ability to look at life comparatively ,Understanding professional and ethical responsibility, Effective written and oral communication skills, An ability to understand the national and global impacts and results of data, Ability to comprehend and apply the importance of lifelong learning,Ability to follow current professional topics, Ability to conduct scientific research under independent or consultant management | | | | | | | |
| **TEXTBOOK** | | | | Gazi Mustafa Kemal Atatürk, Nutuk (Söylev), C. I-II, TTK., Ankara,1986. İmparatorluktan Ulus Devlete Türk İnkılâp Tarihi, Cemil Öztürk (ed.), Ank., 2018. İstek Yayınları | | | | | | | |
| **OTHER REFERENCES** | | | | Türkiye’de Çağdaşlaşma. (2022). Niyazi Berkes. 34. Baskı. İstanbul  Enver Ziya Karal, Atatürk ve Devrim (Konferanslar ve Makaleler), TTK., Ankara, 1980. Enver Ziya Karal, Atatürk’ten Düşünceler, MEB. Yay., Ankara, 1981. Modern Türkiye’nin Doğuşu. (2015). Bernard Lewis, Çev Babür Turna .Arkadaş Yayınları Tarih Açısından Türk Devriminin Temelleri ve Gelişimi. (2000). Ahmet Mumcu. 24.baskı. İnkılap Kitabevi | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | Barkovizyon, UZEMÖYS | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | The aim of teaching Ataturk's Principles and History of Turkish Revolution and the concept of Turkish Revolution |
| 2 | Overview of the Reasons Preparing the Fall of the Ottoman Empire and the Turkish Revolution |
| 3 | Fragmentation of the Ottoman Empire (Tripoli, Balkan Wars and the First World War) |
| 4 | Mondros Armistice Treaty |
| 5 | The Situation of the Country Against the Occupation and Mustafa Kemal Pasha's Response |
| 6 | Mustafa Kemal Pasha's Departure to Samsun |
| 7 | First Step for National Struggle, Organizing through Congresses |
| 8 | National Forces and National Pact |
| 9 | Opening the Grand National Assembly of Turkey |
| 10 | Turkey to address the Grand National Assembly of the Independence War |
| 11 | National Struggle Until Sakarya Victory |
| 12 | National Struggle in Education and Culture |
| 13 | Sakarya War and Great Attack |
| 14 | From Mudanya to Lausanne |
| 15,16 | FINAL EXAM |

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| --- | --- | --- | --- | --- |
| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques |  |  | **x** |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques |  |  | **x** |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems |  |  | **x** |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values |  |  | **x** |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication |  |  | **x** |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques |  |  | **x** |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach |  |  | **x** |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning |  | **x** |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes |  |  | **x** |
| 10 | Using and communicating a foreign language at a basic level |  |  | **x** |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules |  |  | **x** |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field |  |  | **x** |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):** **Signature**:  **Date:**

 **ESOGU Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **SEMESTER** | FALL |

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| **COURSE CODE** | 211413263 | **COURSE NAME** | RESEARCH PROJECT |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | |
| **Theory** | | **Practice** | **Laboratory** | | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** |
| 3 | 2 | | 0 | 0 | | | 2 | 4 | COMPULSORY ( ) ELECTIVE (X) | | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** | |
|  | |  | | | |  | | | | | X | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | | **Evaluation Type** | | | | | **Quantity** | | **%** |
| 1st Mid-Term | | | | | 1 | | 40 |
| 2nd Mid-Term | | | | |  | |  |
| Quiz | | | | |  | |  |
| Homework | | | | |  | |  |
| Project | | | | |  | |  |
| Report | | | | |  | |  |
| Others (………) | | | | |  | |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | | 60 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | | |
| **COURSE DESCRIPTION** | | | | | Literature review, research, project preparation, presentation and evaluation | | | | | | | |
| **COURSE OBJECTIVES** | | | | | To ensure that the techniques of preparing a scientific research project, collecting data, analyzing, evaluating, reporting and presenting the project on a selected subject in the relevant field are applied in practice. | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | | | Gaining the ability to cope with difficulties in the profession by gaining research skills | | | | | | | |
| **COURSE OUTCOMES** | | | | | 1. To be able to determine a research project by evaluating the researches in the field of medical imaging  2. Being able to conduct research in accordance with scientific research methods and critically evaluate the results | | | | | | | |
| **TEXTBOOK** | | | | | Johnson R.B., Turner, L. A. & Burke, R.(2020). Araştırma Yöntemleri Desen ve Analiz. Ed: Ahmet Aypay. Anı Yayıncılık.  Daşdemir, İ. (2021). Bilimsel Araştırma Yöntemleri. Nobel Akademik Yayıncılık | | | | | | | |
| **OTHER REFERENCES** | | | | | Ed.: Zeynep Tatlı.(2021). Proje Geliştirme ve Yönetimi.1. Baskı. Pegem Akademi Yayıncılık | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Barcovision, computer, UZEMOYS | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Determination of the project subject |
| 2 | Sharing content and expectations from the course |
| 3 | Discussing the contents of the problem, purpose, importance, premise, limitations and definitions sections in the research project |
| 4 | Study of bibliography |
| 5 | Determining the research topic according to the interests of the students |
| 6 | Studying the research plan |
| 7 | Preparing the problem, purpose, importance, numeral, limitations and definitions sections of the research project |
| 8 | Discussing the content of the method section |
| 9 | Planning the research model, data collection tools and process |
| 10 | Preparation of the research model, data collection tools and process |
| 11 | Preparation of data collection tools suitable for the research project |
| 12 | Analyzing the data collected in accordance with the research project |
| 13 | Writing the research project report |
| 14 | Presentation of research projects |
| 15,16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques |  | **x** |  |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques |  |  | **x** |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems |  | **x** |  |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values |  | **x** |  |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication |  | **x** |  |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques |  | **x** |  |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach |  | **x** |  |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning | **x** |  |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes |  | **x** |  |
| 10 | Using and communicating a foreign language at a basic level |  | **x** |  |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules |  | **x** |  |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field |  | **x** |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**



**ESOGU** **Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **SEMESTER** | FALL |

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| **COURSE CODE** | 211413264 | **COURSE NAME** | TRADITIONAL AND COMPLEMENTARY MEDICINE PRACTICES |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | |
| **Theory** | | **Practice** | **Labratory** | | | **Credit** | **ECTS** | **TYPE** | | **LANGUAGE** |
| 3 | 2 | | 0 | 0 | | | 2 | 4 | COMPULSORY ( ) ELECTIVE (X ) | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** |
|  | | X | | | |  | | | | |  |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | |
| **MID-TERM** | | | | | **Evaluation Type** | | | | | **Quantity** | **%** |
| 1st Mid-Term | | | | | 1 | 40 |
| 2nd Mid-Term | | | | |  |  |
| Quiz | | | | |  |  |
| Homework | | | | |  |  |
| Project | | | | |  |  |
| Report | | | | |  |  |
| Others (………) | | | | |  |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | 60 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | |
| **COURSE DESCRIPTION** | | | | | Discussion and comparison of traditional and complementary medicine practices, international and national practices, laws and regulations, etc. covers topics | | | | | | |
| **COURSE OBJECTIVES** | | | | | To inform the student about the legislation related to traditional and complementary medicine practices that are widely used; To enable the student to gain theoretical knowledge about the basic concepts and practices related to traditional and complementary medicine practices. | | | | | | |
| **ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION** | | | | | To have knowledge about the applications when encountering with patients who use traditional and complementary medicine applications in their field. | | | | | | |
| **COURSE OUTCOMES** | | | | | 1) To be able to tell traditional and complementary medicine practices  2) Knows the classifications of traditional and complementary medicine practices. Knows the official definitions.  3) Learns the regulations and regulations related to traditional and complementary medicine practices in Turkey and in the World.  4) To know the application forms of traditional and complementary medicine practices | | | | | | |
| **TEXTBOOK** | | | | | Başer M, Taşçı S. (editörler) (2015). Kanıta dayalı rehberleriyle tamamlayıcı ve destekleyici uygulamalar. Akademisyen tıp kitabevi, Ankara. ISBN: 978-605-9942-49-2.  Prof. Dr. Serpil DEMİRAĞ, Geleneksel ve Tamamlayıcı Tıp Uygulamaları, Hipokrat yayınevi.2019. | | | | | | |
| **OTHER REFERENCES** | | | | | Proceedings of national and international congresses on traditional and complementary medicine practices. Scientific studies on the subjects of the course | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Computer, projection, UZEMOYS. | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Concept of traditional and complementary medicine practices, complementary methods, traditional methods, conventional medicine, eastern medicine concepts. |
| 2 | The holistic structure of the human being, the concept of holistic care, body, mind, mental health |
| 3 | Legal situation regarding traditional and complementary medicine practices in Turkey: S.B. Department of |
| 4 | Traditional and Complementary Medicine, Relevant legislation and legal regulations |
| 5 | Legal regulations and developments related to the concept of traditional and complementary medicine practices in the world |
| 6 | Biologically based methods: phytotherapy, homeopathy, mesotherapy and ozone applications |
| 7 | Manipulative and body-based methods: Reflexology, hot application, cold application |
| 8 | Relaxation exercise, aromatherapy, exercise, massage. |
| 9 | Energy-based practices: Therapeutic touch, reiki, bioenergy |
| 10 | Mind and body based practices: yoga, hypnosis and hypnotherapy |
| 11 | Mind and body based practices: music-audoanalgesia, meditation, prayer and creative imagination |
| 12 | Traditional medical methods: Acupuncture, Acupressure, transcutaneous and electrical nerve stimulation  naturopathy, chiropractic |
| 13 | Ayurvedic medicine |
| 14 | Mindfulness-based stress reduction program |
| 15,16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques |  |  | **x** |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques |  |  | **x** |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems |  |  | **x** |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values |  | **x** |  |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication |  | **x** |  |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques |  |  | **x** |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach |  |  | **x** |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning | **x** |  |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes |  |  | **x** |
| 10 | Using and communicating a foreign language at a basic level |  | **x** |  |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules |  |  | **x** |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field |  |  | **x** |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):** **Signature**:  **Date:**

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| https://ogu.edu.tr/files/duyuru/9ff77656-8e6a-4c44-98b9-5f236a699de2/ESOG%C3%9C_Son_logo.jpg | **ESOGU Vocational School of Health Services**  **Department of Medical Services and Techniques**  **Medical Imaging Techniques Program**  **Course Information Form** |

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| **SEMESTER** | FALL |

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| **COURSE CODE** | 211213265 | **COURSE NAME** | VOCATIONAL ENGLISH I |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | | |
| **Theory** | | **Practice** | **Laboratory** | | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** | |
| 3 | 2 | | 0 | 0 | | | 2 | 4 | COMPULSORY () ELECTIVE ( x ) | | | ENGLISH | |
| **COURSE CATAGORY** | | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** | | |
|  | |  | | | |  | | | | | X | | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | | **Evaluation Type** | | | | | **Quantity** | | | **%** |
| 1st Mid-Term | | | | | 1 | | | 40 |
| 2nd Mid-Term | | | | |  | | |  |
| Quiz | | | | |  | | |  |
| Homework | | | | |  | | |  |
| Project | | | | |  | | |  |
| Report | | | | |  | | |  |
| Others (………) | | | | |  | | |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | | | 60 |
| **PREREQUIEITE(S)** | | | | | ------ | | | | | | | | |
| **COURSE DESCRIPTION** | | | | | English words, terms and topics related to the fields of Medical Imaging Program students will be covered. | | | | | | | | |
| **COURSE OBJECTIVES** | | | | | To teach students the basic professional terminology of medical imaging. | | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | | | To provide Medical Imaging Technician students with the ability to communicate in English with foreign health professionals, patients and their relatives that they may encounter in internship and hospital practices. | | | | | | | | |
| **COURSE OUTCOMES** | | | | | 1. To be able to use basic English grammar rules  2. Knowing and using medical imaging terms  3. To be able to communicate with people and patients who speak the target language in health care | | | | | | | | |
| **TEXTBOOK** | | | | | Özdağ N., (2016), Mesleki İngilizce (Sağlık Meslek Yüksekokulları ve Sağlık personeli için) Vize Yayıncılık, Ankara  Carvers' Medical Imaging 3rd Edition – 2021 Authors: Elizabeth Carver, Barry Carver, Karen Knapp, Elsevier, eBook ISBN: 9780702085307 | | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Devices for presentation (barcovision, slide machine…), UZEMÖYS | | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Introduction to professional English in radiology |
| 2 | Present Simple Tense with radiology examples |
| 3 | Present Continuous Tense with radiology examples |
| 4 | Future Simple Tense with radiology examples |
| 5 | Past Tense with radiology samples |
| 6 | Modal verbs with radiological examples |
| 7 | Radiological terminology |
| 8 | Human body system terminology |
| 9 | Disease terminology |
| 10 | Radiological positioning terms |
| 11 | Device terminology used in radiology (digital x-ray, portable x-ray, ultrasound, mammography, fluoroscopy) |
| 12 | Device terminology used in radiology (interventional radiology, magnetic resonance imaging, computed tomography) |
| 13 | Device terminology used in nuclear medicine |
| 14 | Device terminology used in radiotherapy |
| 15-16 | FINAL EXAMS |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques |  | **x** |  |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques |  | **x** |  |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems |  | **x** |  |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values |  |  | **x** |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication |  |  | **x** |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques |  | **x** |  |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach |  | **x** |  |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning |  | **x** |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes |  | **x** |  |
| 10 | Using and communicating a foreign language at a basic level | **x** |  |  |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules |  | **x** |  |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field |  | **x** |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**



**ESOGU** **Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **SEMESTER** | FALL |

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| **COURSE CODE** | 211413266 | **COURSE NAME** | WORKING OF DISABLE PEOPLE |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | |
| **Theory** | | **Practice** | **Labratory** | | | **Credit** | **ECTS** | **TYPE** | | **LANGUAGE** |
| 3 | 2 | | 0 | 0 | | | 2 | 4 | COMPULSORY ( ) ELECTIVE (X ) | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** |
|  | | X | | | |  | | | | | X |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | |
| **MID-TERM** | | | | | **Evaluation Type** | | | | | **Quantity** | **%** |
| 1st Mid-Term | | | | | 1 | 40 |
| 2nd Mid-Term | | | | |  |  |
| Quiz | | | | |  |  |
| Homework | | | | |  |  |
| Project | | | | |  |  |
| Report | | | | |  |  |
| Others (………) | | | | |  |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | 60 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | |
| **COURSE DESCRIPTION** | | | | | The concept and types of disability, disability awareness, disability rights and legal regulations, disability psychology and approaches to different disability groups in the field of health | | | | | | |
| **COURSE OBJECTIVES** | | | | | To provide information about different disability groups, approaches to these disability groups, and approaches to the participation of people with disabilities in diagnostic procedures in the field. | | | | | | |
| **ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION** | | | | | Gaining knowledge and skills about the issues that students should pay attention to when they encounter groups of patients with disabilities in the areas where they will provide health services in their professional life after graduation. | | | | | | |
| **COURSE OUTCOMES** | | | | | Different disability groups, approaches to disability groups, participation of disabled people, legal regulations regarding disabled people | | | | | | |
| **TEXTBOOK** | | | | | Elibol. F.(2020).Engelli, Hasta ve Yaşlı Bakım Hizmetlerinde Hizmet Kalitesi. Siyasal Kitabevi: İstanbul.  Erdem, Y. ve ark. (2014). Hasta, Yaşlı ve Özel Gereksinimi Olan Engelli Bireyler ve Eğitimi. Vize Yayıncılık: Ankara. | | | | | | |
| **OTHER REFERENCES** | | | | | Timur, T. S. ve Erci, B.(ed.). (2020). Her Yönüyle Engellilik. Anadolu Nobel Tıp Kitabevleri: Adana. | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Projection, Computer, Laser Pointer, UZEMOYS | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Disability and disability |
| 2 | Types of disabilities and causative factors |
| 3 | Disabled rights and legal regulations |
| 4 | Raising disability awareness |
| 5 | Disability psychology |
| 6 | Problems faced by disabled people in the field of health |
| 7 | Approach to the visually impaired patient |
| 8 | Approach to the hearing impaired patient |
| 9 | Approach to the patient with speech and language impairment |
| 10 | Approach to the mentally handicapped patient |
| 11 | Approach to the physically disabled patient |
| 12 | Approach to the chronically disabled patient |
| 13 | Approach to the patient with attention deficit and hyperactivity disorder |
| 14 | Approach to the patient with mental and emotional illness |
| 15,16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques |  | **x** |  |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques |  | **x** |  |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems |  | **x** |  |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values |  | **x** |  |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication | **x** |  |  |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques |  |  |  |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach |  | **x** |  |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning |  |  |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes | **x** |  |  |
| 10 | Using and communicating a foreign language at a basic level |  | **x** |  |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules |  |  |  |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field |  | **x** |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**



**ESOGU** **Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **SEMESTER** | SPRING |

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| **COURSE CODE** | 211414243 | **COURSE NAME** | RADIOTHERAPY |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | |
| **Theory** | | **Practice** | **Labratory** | | | **Credit** | **ECTS** | **TYPE** | | **LANGUAGE** |
| 4 | 2 | | 4 | 0 | | | 4 | 6 | COMPULSORY (X) ELECTIVE ( ) | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** |
| X | |  | | | |  | | | | |  |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | |
| **MID-TERM** | | | | | **Evaluation Type** | | | | | **Quantity** | **%** |
| 1st Mid-Term | | | | | 1 | 40 |
| 2nd Mid-Term | | | | |  |  |
| Quiz | | | | |  |  |
| Homework | | | | |  |  |
| Project | | | | |  |  |
| Report | | | | |  |  |
| Others (………) | | | | |  |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | 60 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | |
| **COURSE DESCRIPTION** | | | | | Basic information about the purpose of radiotherapy treatment, application procedures, radiation safety in radiotherapy, radiotherapy devices, specific radiotherapy techniques | | | | | | |
| **COURSE OBJECTIVES** | | | | | To have the skills and knowledge to control radiotherapy devices, To train qualified technicians who can assist radiotherapy oncologists during radiation therapy | | | | | | |
| **ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION** | | | | | Learning how radiotherapy treatment devices work  Learning the responsibilities of the technician related to radiotherapy  Learning to protect from radiation in terms of patient and employee safety | | | | | | |
| **COURSE OUTCOMES** | | | | | As a technician working in the field of radiotherapy, to have the necessary competence to perform all necessary duties accurately and completely | | | | | | |
| **TEXTBOOK** | | | | | Gunderson and Tepper. 2020. Clinical Radiation Oncology. 5th edition. Elsevier | | | | | | |
| **OTHER REFERENCES** | | | | | Temel Radyasyon Onkolojisi.2018. Murat Beyzadeoğlu.Cüneyt Ebruli.https://sbu.edu.tr/FileFolder/Dosyalar/eb408a43/2018\_10/temelradrasyononkolojisi.pdf | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | - Projection and computer.  -Radiation oncology clinic and treatment and planning machines, UZEMOYS | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Biological basis of radiation oncology |
| 2 | Basic principles of radiotherapy |
| 3 | Interaction of ionizing radiation with biological materials |
| 4 | Early and late side effects of radiotherapy in normal tissue |
| 5 | Radiation safety in radiotherapy |
| 6 | General principles of radiotherapy treatment planning |
| 7 | Dose rate and fractionation effects |
| 8 | Atom and electron structure |
| 9 | Cobalt and simulator devices |
| 10 | Linear accelerator devices |
| 11 | Lung cancer radiotherapy |
| 12 | Breast cancer radiotherapy |
| 13 | Rectal cancer radiotherapy |
| 14 | Specialized radiotherapy techniques |
| 15,16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques | **x** |  |  |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques | **x** |  |  |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems |  | **x** |  |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values | **x** |  |  |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication |  | **x** |  |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques | **x** |  |  |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach | **x** |  |  |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning |  | **x** |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes | **x** |  |  |
| 10 | Using and communicating a foreign language at a basic level |  | **x** |  |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules | **x** |  |  |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field | **x** |  |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**:  **Date:**



**ESOGU** **Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **SEMESTER** | SPRING |

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| --- | --- | --- | --- |
| **COURSE CODE** | 211414244 | **COURSE NAME** | NUCLEAR MEDICINE |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | |
| **Theory** | | **Practice** | **Labratory** | | | **Credit** | **ECTS** | **TYPE** | | **LANGUAGE** |
| 4 | 2 | | 4 | 0 | | | 4 | 6 | COMPULSORY (X) ELECTIVE ( ) | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** |
| X | |  | | | |  | | | | |  |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | |
| **MID-TERM** | | | | | **Evaluation Type** | | | | | **Quantity** | **%** |
| 1st Mid-Term | | | | | 1 | 40 |
| 2nd Mid-Term | | | | |  |  |
| Quiz | | | | |  |  |
| Homework | | | | |  |  |
| Project | | | | |  |  |
| Report | | | | |  |  |
| Others (………) | | | | |  |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | 60 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | |
| **COURSE DESCRIPTION** | | | | | Radioactive materials used in the diagnosis and treatment of diseases are prepared and given to the patient, imaging methods and application techniques, working principles and quality control of devices, effects of radiation and radiation protection | | | | | | |
| **COURSE OBJECTIVES** | | | | | To introduce students to the purpose, content and application areas of nuclear medicine | | | | | | |
| **ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION** | | | | | To gain knowledge and skills about the applications of nuclear medicine investigations. | | | | | | |
| **COURSE OUTCOMES** | | | | | Knows the preparation and use of radionuclide and radiopharmaceuticals used in the diagnosis and treatment of diseases. | | | | | | |
| **TEXTBOOK** | | | | | 1.Mettler, F. A., & Guiberteau, M. J. (2018). Essentials of Nuclear Medicine and Molecular Imaging E-Book. Elsevier Health Sciences.  2.Diagnostic Nuclear Medicine. Martin P. Sandler (Ed), R. Coleman (Ed), James A. Patton (Ed), Frans J. Wackers; Alexander Gottschalk (Ed), Lippincott Williams & Wilkins; 4th edition, October 2002, ISBN: 0781732522 | | | | | | |
| **OTHER REFERENCES** | | | | | Physics in Nuclear Medicine.(2012) Simon R, Cherry, James Sorenson, Michael Phelps. 4.ed, Saunders ISBN: 1416051988 | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Projection and computer  Nuclear medicine planning and treatment devices, UZEMOYS | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Definition of nuclear medicine |
| 2 | Atomic and nuclear physics and radiation concepts |
| 3 | Types of radiation and its interaction with matter |
| 4 | Radioactive agents and pharmaceuticals used in nuclear medicine |
| 5 | Radioactivity detection systems |
| 6 | Radiation protection |
| 7 | Biological effects of radiation |
| 8 | Skeletal system imaging, nervous system imaging nuclear medicine applications |
| 9 | Endocrine system imaging, gastrointestinal system imaging, urinary system imaging nuclear medicine applications |
| 10 | Respiratory system imaging |
| 11 | Circulatory system imaging applications |
| 12 | Oncological imaging |
| 13 | PET/CT nuclear medicine applications |
| 14 | Radionuclide Therapy applications |
| 15,16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques | **x** |  |  |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques | **x** |  |  |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems | **x** |  |  |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values | **x** |  |  |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication | **x** |  |  |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques | **x** |  |  |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach | **x** |  |  |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning |  | **x** |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes | **x** |  |  |
| 10 | Using and communicating a foreign language at a basic level |  | **x** |  |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules | **x** |  |  |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field | **x** |  |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):** **Signature**:  **Date:**

**ESOGU Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **TERM** | SPRING |

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| **COURSE CODE** | 211414245 | **COURSE NAME** | RADIOLOGICAL IMAGING PHYSICS II |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | |
| **Theory** | | **Practice** | **Laboratory** | | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** |
| 4 | 2 | | 4 | 0 | | | 4 | 6 | COMPULSORY ( **X**) ELECTIVE ( ) | | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** | |
| X | |  | | | |  | | | | |  | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | | **Evaluation Type** | | | | | **Quantity** | | **%** |
| 1st Mid-Term | | | | | 1 | | 40 |
| 2nd Mid-Term | | | | |  | |  |
| Quiz | | | | |  | |  |
| Homework | | | | |  | |  |
| Project | | | | |  | |  |
| Report | | | | |  | |  |
| Others (………) | | | | |  | |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | | 60 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | | |
| **COURSE DESCRIPTION** | | | | | - Physical principles of x-ray equipment  - Physical rules in radiographic techniques  - Gains knowledge about the operation of imaging devices. | | | | | | | |
| **COURSE OBJECTIVES** | | | | | The aim of this course is physical interactions in radiographic procedures.  To have knowledge about the physics of radiological imaging. | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | | | 1. The student will know the physics principles of all radiographic operations.  2. The student will use radiographic devices in an easy and convenient way. | | | | | | | |
| **COURSE OUTCOMES** | | | | | To teach physical interactions and physical principles of x-ray devices in radiographic procedures. | | | | | | | |
| **TEXTBOOK** | | | | | Temel Tıbbi (Radyolojik) Görüntüleme Tekniği. 2016. İbrahim Özdemir. Hiperlink Yayınları Tıbbi Cihaz ve Malzemeler. 2018. Ed. Mustafa Solak. T.C. Anadolu Üniversitesi Yayını No: 3219 Açıköğretim Fakültesi Yayını No: 2090 https://www.aof.tc/tibbi-cihaz-ve-malzemeler-sak301u-ders-kitabi.html | | | | | | | |
| **OTHER REFERENCES** | | | | | Temel Radyoloji Tekniği. 2016. Tamer Kaya, Ragıp Özkan, Baki Adapınar. 5. Baskı. Nobel Tıp. | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Projector, Text pen, Computer, UZEMOYS | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Film development and its types |
| 2 | Image quality |
| 3 | Artifacts that may occur on the X-ray film |
| 4 | Radiographic quality and factors |
| 5 | X-ray devices and their physical principles |
| 6 | Mammography imaging |
| 7 | Radiography devices |
| 8 | Magnetic resonance devices |
| 9 | Radioscopic devices |
| 10 | Conventional tomography |
| 11 | Angiography devices |
| 12 | Portable x-ray equipment |
| 13 | C-arm fluoroscopy devices |
| 14 | Photofluorography devices |
| 15,16 | FINAL EXAM |

|  |  |  |  |  |
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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques | **x** |  |  |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques | **x** |  |  |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems |  | **x** |  |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values | **x** |  |  |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication |  | **x** |  |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques | **x** |  |  |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach | **x** |  |  |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning |  | **x** |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes | **x** |  |  |
| 10 | Using and communicating a foreign language at a basic level |  | **x** |  |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules | **x** |  |  |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field | **x** |  |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**

**ESOGU Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **SEMESTER** | SPRING |

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| **COURSE CODE** | 211414246 | **COURSE NAME** | HEALTH CARE MANAGEMENT |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | |
| **Theory** | | **Practice** | **Laboratory** | | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** |
| 4 | 2 | | 0 | 0 | | | 2 | 2 | COMPULSORY ( **X**) ELECTIVE ( ) | | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** | |
|  | | X | | | |  | | | | |  | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | | **Evaluation Type** | | | | | **Quantity** | | **%** |
| 1st Mid-Term | | | | | 1 | | 50 |
| 2nd Mid-Term | | | | |  | |  |
| Quiz | | | | |  | |  |
| Homework | | | | |  | |  |
| Project | | | | |  | |  |
| Report | | | | |  | |  |
| Others (………) | | | | |  | |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | | 50 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | | |
| **COURSE DESCRIPTION** | | | | | The concept of management, principles of management, historical development, functions, characteristics of health services, classification, functions, management of health services, establishment studies, hospitals, basic features of hospitals, functions of hospitals, patient rights and ethics in health enterprises, contemporary approaches in health services | | | | | | | |
| **COURSE OBJECTIVES** | | | | | The purpose of this course is to introduce the basic concepts of management. İn addition to this, the corse will transfer the main principal of health care management to application. | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | | | Taking this course, students will apply the profession and professional life in hospitals. They will gain information about health care management | | | | | | | |
| **COURSE OUTCOMES** | | | | | Understanding the basic idea of ​​management, Recognizing the concepts of management, Having information about the history of management, Learning the principles of management, Learning the functions of management, Having information about Health Services Management, Having general information about hospital management. | | | | | | | |
| **TEXTBOOK** | | | | | Tengilimioğlu D., Işık,O., Akbolat M.(2021) Sağlık İşletmeleri Yönetimi. Ankara Nobel Yayınları | | | | | | | |
| **OTHER REFERENCES** | | | | | Şerife Didem Kaya.Sağlık Hizmetleri Yönetimi. (2021). Nobel Yayınları | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Temel ders kitabı, power point sunusu, UZEMÖYS | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Definition of management. General characteristics of management |
| 2 | The historical development of management: Classical management approach, behavioral management approach, a modern management approach |
| 3 | Management functions: planning, organizing, directing, co-ordination and control |
| 4 | Health Service. Health services activities, characteristics and classification of health services |
| 5 | Health system and the environment. Relations with the external environment on the health system. |
| 6 | Hospital building types |
| 7 | Historical development and organization of health services. |
| 8 | Hospital management. Characteristics of the hospitals. Classification of Hospitals |
| 9 | Hospitals, building management |
| 10 | Patient rights in Turkey. |
| 11 | The concept of ethics and morality in Health Care Facilities. Mobbing, Mobbing Health Administration Process. |
| 12 | Contemporary Approaches in Health Care Facilities |
| 13 | Total Quality Management in Health Services |
| 14 | Training in health centers. Leadership. of hospital management. Teamwork |
| 15,16 | FINAL EXAM |

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| --- | --- | --- | --- | --- |
| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques |  |  | **x** |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques |  |  | **x** |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems |  |  | **x** |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values | **x** |  |  |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication | **x** |  |  |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques | **x** |  |  |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach |  |  | **x** |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning | **x** |  |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes | **x** |  |  |
| 10 | Using and communicating a foreign language at a basic level |  | **x** |  |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules |  |  | **x** |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field |  |  | **x** |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**

**ESOGU Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Informaion Form**



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| **SEMESTER** | SPRING |

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| **COURSE CODE** | 211414247 | **COURSE NAME** | ATATÜRK'S PRINCIPLES AND HISTORY OF REVOLUTION II |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | |
| **Theory** | | **Practice** | | **Labratory** | | **Credit** | **ECTS** | **TYPE** | | **LANGUAGE** |
| 4 | 2 | | 0 | | 0 | | 2 | 2 | COMPULSORY (x ) ELECTIVE ( ) | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | |
| **Basic vocational courses** | | **Basic Field Courses** | | | | **Social Science** | | | | | **Support Courses** |
|  | |  | | | |  | | | | | X |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | |
| **MID-TERM** | | | | **Evaluation Type** | | | | | | **Quantity** | **%** |
| 1st Mid-Term | | | | | | 1 | 40 |
| 2nd Mid-Term | | | | | |  |  |
| Quiz | | | | | |  |  |
| Homework | | | | | |  |  |
| Project | | | | | |  |  |
| Report | | | | | |  |  |
| Others (………) | | | | | |  |  |
| **FINAL EXAM** | | | |  | | | | | | 1 | 60 |
| **PREREQUIEITE(S)** | | | | None | | | | | | | |
| **COURSE DESCRIPTION** | | | | In terms of history, the basis of the Turkish Revolution, the historical development of the Turkish revolution, time is compared in the indexial axis, examines the concepts of full independence and national sovereignty, the struggle is transferred to young individuals. | | | | | | | |
| **COURSE OBJECTIVES** | | | | To ensure that the students grow up as individuals who are committed to the principles and revolutions of Atatürk, adopting and preserving secular, democratic and contemporary values. | | | | | | | |
| **ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION** | | | | In the process of completing personality development, the process of awareness is completed with the concepts of full independence and national sovereignty. In general, the course has adopted a critical approach that is self-fulfilling, cultured, sensitive to the agenda, and contributes to the process of constructive and solution-oriented individuals. | | | | | | | |
| **COURSE OUTCOMES** | | | | An ability to apply knowledge of social sciences, Ability to analyze, evaluate and design data, Ability to do group work, An ability to lead an interdisciplinary team  Ability to look at life comparatively ,Understanding professional and ethical responsibility, Effective written and oral communication skills, An ability to understand the national and global impacts and results of data, Ability to comprehend and apply the importance of lifelong learning,Ability to follow current professional topics, Ability to conduct scientific research under independent or consultant management | | | | | | | |
| **TEXTBOOK** | | | | Gazi Mustafa Kemal Atatürk, Nutuk (Söylev), C. I-II, TTK., Ankara,1986. İmparatorluktan Ulus Devlete Türk İnkılâp Tarihi, Cemil Öztürk (ed.), Ank., 2018. İstek Yayınları | | | | | | | |
| **OTHER REFERENCES** | | | | Türkiye’de Çağdaşlaşma. (2022). Niyazi Berkes. 34. Baskı. İstanbul  Enver Ziya Karal, Atatürk ve Devrim (Konferanslar ve Makaleler), TTK., Ankara, 1980. Enver Ziya Karal, Atatürk’ten Düşünceler, MEB. Yay., Ankara, 1981.  Modern Türkiye’nin Doğuşu. (2015). Bernard Lewis, Çev Babür Turna .Arkadaş Yayınları Tarih Açısından Türk Devriminin Temelleri ve Gelişimi. (2000). Ahmet Mumcu. 24.baskı. İnkılap Kitabevi | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | Barkovizyon, UZEMÖYS | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Strategy of the Turkish Revolution |
| 2 | Treaty of Sèvres and Lausanne |
| 3 | Two Great Revolutions in the Political Field |
| 4 | Progressive Republican Party and Approval Period |
| 5 | Multi-Party Enforcement Attempt and Some Domestic Political Events (TCF and Takrir-i Sükûn Period) |
| 6 | Turkish Legal Revolution |
| 7 | Education and Cultural Revolution |
| 8 | Revolutions Made in the Field of Economics |
| 9 | Revolutions in Social Structure and Health |
| 10 | Foreign Policy of the Republic of Turkey |
| 11 | Geopolitics and Turkey's Geopolitical Situation |
| 12 | The Threat of Psychological Operations Against University Youth |
| 13 | Ataturk's Principles and Threats to These Principles |
| 14 | Activities in the Field of Higher Education and University Reform |
| **15,16** | **FINAL EXAMS** |

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| --- | --- | --- | --- | --- |
| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques |  |  | **x** |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques |  |  | **x** |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems |  |  | **x** |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values |  |  | **x** |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication |  |  | **x** |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques |  |  | **x** |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach |  |  | **x** |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning |  | **x** |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes |  |  | **x** |
| 10 | Using and communicating a foreign language at a basic level |  |  | **x** |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules |  |  | **x** |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field |  |  | **x** |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**

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| https://ogu.edu.tr/files/duyuru/9ff77656-8e6a-4c44-98b9-5f236a699de2/ESOG%C3%9C_Son_logo.jpg | **ESOGU Vocational School of Health Services**  **Department of Medical Services and Techniques**  **Medical Imaging Techniques Program**  **Course Information Form** |

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| **SEMESTER** | SPRING |

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| **COURSE CODE** | 211414248 | **COURSE NAME** | VOCATIONAL ENGLISH II |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | | |
| **Theory** | | **Practice** | | **Laboratory** | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** | |
| 4 | 2 | | 0 | | 0 | | 2 | 4 | COMPULSORY () ELECTIVE ( x ) | | | ENGLISH | |
| **COURSE CATAGORY** | | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** | | |
|  | |  | | | |  | | | | | X | | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | **Evaluation Type** | | | | | | **Quantity** | | | **%** |
| 1st Mid-Term | | | | | | 1 | | | 40 |
| 2nd Mid-Term | | | | | |  | | |  |
| Quiz | | | | | |  | | |  |
| Homework | | | | | |  | | |  |
| Project | | | | | |  | | |  |
| Report | | | | | |  | | |  |
| Others (………) | | | | | |  | | |  |
| **FINAL EXAM** | | | |  | | | | | | 1 | | | 60 |
| **PREREQUIEITE(S)** | | | | ------ | | | | | | | | | |
| **COURSE DESCRIPTION** | | | | Patient preparation and guidance in radiological examinations, communication with patient relatives and within the team, literature review and evaluation in English for Medical Imaging Program students | | | | | | | | | |
| **COURSE OBJECTIVES** | | | | To teach students a basic level of professional terminology related to medical imaging | | | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | | To provide Medical Imaging Technician students with the ability to communicate in English with foreign health professionals, patients and their relatives that they may encounter in internship and hospital practices, and to reach the literature specific to their field. | | | | | | | | | |
| **COURSE OUTCOMES** | | | | 1. To be able to use basic English grammar rules  2. Knowing and using medical imaging terms  3. To be able to communicate with people and patients who speak the target language in health care  4. Field-specific English literature review | | | | | | | | | |
| **TEXTBOOK** | | | | Özdağ N., (2016), Mesleki İngilizce (Sağlık Meslek Yüksekokulları ve Sağlık personeli için) Vize Yayıncılık, Ankara  Carvers' Medical Imaging 3rd Edition – 2021 Authors: Elizabeth Carver, Barry Carver, Karen Knapp, Elsevier, eBook ISBN: 9780702085307 | | | | | | | | | |
| **OTHER REFERENCES** | | | | Radiological English. (2007). Ramón Ribes , Pablo R. Ros. Springer  Essential Grammar in Use - Fourth Edition - A Self-Study Reference and Practice Book for Elementary Students of English - With Answers  Raymond Murphy. 2015. Cambrıdge University Press | | | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | Devices for presentation (barcovision, slide machine…), UZEMÖYS | | | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Getting to know (asking for personal information, being able to answer the question) |
| 2 | Grammar repetition:Indirect questions, If clauses ve Passive sentences |
| 3 | Grammar repetition:: Indirect questions, If clauses ve Passive sentences |
| 4 | General Anatomy |
| 5 | General Anatomy |
| 6 | Human Body Systems |
| 7 | Human Body Systems |
| 8 | Sking and Giving Directions |
| 9 | Sking and Giving Directions |
| 10 | Reading Text |
| 11 | Reading Text / |
| 12 | General conversations between the patient and the health technician (welcoming the patient / first examination of the patient / leaving the patient) |
| 13 | General conversations between the patient and the health technician (welcoming the patient / first examination of the patient / leaving the patient) |
| 14 | Reading Text |
| 15,16 | FINAL EXAM |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques |  | **x** |  |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques |  | **x** |  |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems |  | **x** |  |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values |  |  | **x** |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication |  |  | **x** |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques |  | **x** |  |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach |  | **x** |  |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning |  | **x** |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes |  | **x** |  |
| 10 | Using and communicating a foreign language at a basic level | **x** |  |  |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules |  | **x** |  |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field |  | **x** |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**



**ESOGU** **Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **SEMESTER** | SPRING |

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| **COURSE CODE** | 211414249 | **COURSE NAME** | ENVIRONMENT HEALTH |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | |
| **Theory** | | **Practice** | **Labratory** | | | **Credit** | **ECTS** | **TYPE** | | **LANGUAGE** |
| 4 | 2 | | 0 | 0 | | | 2 | 4 | COMPULSORY ( ) ELECTIVE (X ) | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** |
|  | | X | | | |  | | | | |  |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | |
| **MID-TERM** | | | | | **Evaluation Type** | | | | | **Quantity** | **%** |
| 1st Mid-Term | | | | | 1 | 40 |
| 2nd Mid-Term | | | | |  |  |
| Quiz | | | | |  |  |
| Homework | | | | |  |  |
| Project | | | | |  |  |
| Report | | | | |  |  |
| Others (………) | | | | |  |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | 60 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | |
| **COURSE DESCRIPTION** | | | | | Environmental Health Concept; To give information about the definition, the relationship between environment and health, environment and human, soil, agriculture, solid wastes, medical wastes, drinking and utility water, environmental pollutants, pesticides, heavy metals and the chemicals used in our daily life and environmental pollutants that may be exposed. | | | | | | |
| **COURSE OBJECTIVES** | | | | | To understand the effects of environmental health on human health | | | | | | |
| **ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION** | | | | | Will be able to comprehend environmental awareness, how environmental health affects human health and gain environmental culture. Gains knowledge of what environmental health means. Gains knowledge about the components that affect environmental health and what measures can be taken about environmental pollution. Interpret the relationship of water pollution, pesticides, heavy metals, solid wastes, medical wastes and other toxic substances with human health. | | | | | | |
| **COURSE OUTCOMES** | | | | | To understand the relationship between environment and health | | | | | | |
| **TEXTBOOK** | | | | | Doç. Dr. Eray Yurtseven ,(2014) İstanbul Üniversitesi Açık ve Uzaktan Eğitim Fakültesi/environmental health textbookA Prüss-Ustün, J Wolf, C Corvalán, R Bos and M Neira (2016) Preventing disease through healthy environments;A global assessment of the burden of disease from environmental risks (WHO) | | | | | | |
| **OTHER REFERENCES** | | | | | European environment agency publications, Environment and health (<https://www.eea.europa.eu/tr/themes/human>)  Laws and regulations  Current articles (ie. <https://dergipark.org.tr/en/download/article-file/965961>) | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Projector, Computer, Laser Pointer, UZEMOYS | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | What is the environment, Basic concepts about the environment |
| 2 | Basic concepts of environmental health |
| 3 | What are environmental pollutants |
| 4 | Bioconcentration, bioaccumulation, biomagnification concepts |
| 5 | What is air pollution and its sources |
| 6 | Water pollution and its importance |
| 7 | Effects of nutrient pollution on health |
| 8 | Effects of pesticide use on environment and human health |
| 9 | Noise pollution, housing and shelter health, school and environmental health |
| 10 | Environmental health monitoring methods |
| 11 | Solid waste and Medical waste |
| 12 | Acid rain and its causes |
| 13 | Effects of climate change on environment and human health |
| 14 | Effects of Environmental Pollution on Human Health |
| 15,16 | FINAL EXAM |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques |  |  | **x** |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques |  |  | **x** |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems |  |  | **x** |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values |  | **x** |  |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication |  |  | **x** |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques |  |  | **x** |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach |  |  | **x** |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning | x |  |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes | x |  |  |
| 10 | Using and communicating a foreign language at a basic level |  |  | **x** |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules | x |  |  |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field |  |  | **x** |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**:  **Date:**

**ESOGU Vocational School of Health Services**

**Department of Medical Services and Techniques**

**Medical Imaging Techniques Program**

**Course Information Form**

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| **SEMESTER** | SPRING |

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| **COURSE CODE** | 211414250 | **COURSE NAME** | MATHEMATICS |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | |
| **Theory** | | **Practice** | **Laboratory** | | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** |
| 4 | 2 | | 0 | 0 | | | 2 | 4 | COMPULSORY ( ) ELECTIVE ( X ) | | | TURKISH |
| **COURSE CATAGORY** | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** | |
|  | |  | | | |  | | | | | X | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | | **Evaluation Type** | | | | | **Quantity** | | **%** |
| 1st Mid-Term | | | | | 1 | | 40 |
| 2nd Mid-Term | | | | |  | |  |
| Quiz | | | | |  | |  |
| Homework | | | | |  | |  |
| Project | | | | |  | |  |
| Report | | | | |  | |  |
| Others (………) | | | | |  | |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | | 60 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | | |
| **COURSE DESCRIPTION** | | | | | Numbers, exponential and radical expressions, first order expressions, permutation and combination, coordinating plane, straight equation in plane, first order inequalities, first order equations and inequalities including absolute value sign, vectors, matrix and determinant. | | | | | | | |
| **COURSE OBJECTIVES** | | | | | To give the basic concepts and features of elementary mathematics | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | | | Basic mathematical knowledge that may be required in all kinds of professional work and calculations is given. | | | | | | | |
| **COURSE OUTCOMES** | | | | | To be able to identify the problems that can be solved with the aforementioned issues, to be able to analyze and to solve them using solution methods. | | | | | | | |
| **TEXTBOOK** | | | | | Koçak Ş., Alptekin, N. (2018). Genel Matematik. T.C. Anadolu Üniversitesi Yayını No: 2518. Eskişehir; Açıköğretim Fakültesi Yayını No: 1489  Akyüz, T. (2019). Temel ve Genel Matematik I, Ankara. | | | | | | | |
| **OTHER REFERENCES** | | | | | Duruk, B. (2021). Meslek Yüksekokulları İçin Matematik. Ankara: Nobel Akademik Yayıncılık | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Projector, Text pen, Computer, UZEMOYS | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Numbers |
| 2 | Prime numbers and ebob, echo |
| 3 | Expressions with exponents and radicals |
| 4 | First order expressions |
| 5 | Quadratic expressions |
| 6 | Permutation |
| 7 | Combination |
| 8 | Coordinating the plane, Equation of the line in the plane and distance |
| 9 | Inequalities with a first-order unknown |
| 10 | Inequalities with a first-order unknown |
| 11 | Inequalities with two unknowns of the first order |
| 12 | First-order equations involving the absolute value sign |
| 13 | First-order inequalities involving the absolute value sign |
| 14 | Vectors |
| 15,16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | To acquire basic theoretical and applied knowledge and skills in the field of medical imaging techniques |  | **x** |  |
| 2 | To use and maintain the equipment and devices related to the field of medical imaging techniques, to use basic communication and information technologies, to use new tools and equipment with the developing technology, to apply changing techniques |  | **x** |  |
| 3 | To identify possible problems in the field of medical imaging techniques, to analyze and to convey their thoughts by developing solutions for existing problems |  | **x** |  |
| 4 | To be aware of professional legal responsibilities and to act in accordance with legal regulations; caring, protecting and maintaining universal and professional ethical principles and values |  | **x** |  |
| 5 | To communicate effectively with patients/patient relatives, physicians, colleagues and other healthcare professionals, to use Turkish effectively and to convey their thoughts and information through written and verbal communication |  | **x** |  |
| 6 | Being active in teamwork and taking responsibility in practices related to the institution and medical imaging techniques |  | **x** |  |
| 7 | Using medical imaging techniques and knowledge gained in the field of health, interpreting and evaluating scientific data with a critical approach |  | **x** |  |
| 8 | Participating in all activities necessary to develop knowledge, skills and competences within the scope of lifelong learning | **x** |  |  |
| 9 | To act in accordance with occupational safety, patient safety and quality management processes |  | **x** |  |
| 10 | Using and communicating a foreign language at a basic level |  |  | **x** |
| 11 | To know radiation safety and to protect herself, patients and their relatives from radiation according to the rules |  | **x** |  |
| 12 | To determine the areas that need to be developed in line with the needs in the field of medical imaging techniques, to play an active role in the planning and execution of developmental activities, to carry out studies independently in line with the basic knowledge and skills acquired in the field |  | **x** |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature: Date:**

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| logoo | **ESOGU Vocational School of Health Services**  **Department of Medical Services and Techniques**  **Medical Imaging Techniques Program**  **Course Information Form** |

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| **Term** | FALL |

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| **COURSE CODE** | 211411183 | **COURSE NAME** | ANATOMY |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | | |
| **Theory** | | **Practice** | **Laboratory** | | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** | |
| 1 | 2 | | 0 | 0 | | | 2 | 3 | COMPULSORY (X) ELECTIVE ( ) | | | Turkish | |
| **COURSE CATAGORY** | | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** | | |
|  | | X | | | |  | | | | |  | | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | | **Evaluation Type** | | | | | **Quantity** | | | **%** |
| 1st Mid-Term | | | | | 1 | | | 40 |
| 2nd Mid-Term | | | | |  | | |  |
| Quiz | | | | |  | | |  |
| Homework | | | | |  | | |  |
| Project | | | | |  | | |  |
| Report | | | | |  | | |  |
| Others (………) | | | | |  | | |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | | | 60 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | | | |
| **COURSE DESCRIPTION** | | | | | The lesson contains the importance of the anatomy science, its sub-branches, anatomy terms and concepts, organs and the systems. The lesson contains; the systems, locomotors systems ,cardiovascular system, respiratory system, digestive system, nervous system, uriner system, genital system, endocrine system and organ of 5 sense. These teorical anatomic information are learned by the help of the dictionaries and ( anatomy ) atlas.and maquettes | | | | | | | | |
| **COURSE OBJECTIVES** | | | | | To give information about human body is structure. To use the Latin terminologies that are internationally common while learning the medical terms and concepts . | | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | | | The lesson’s target is to give information to the health personnel that will work on medicine care. | | | | | | | | |
| **COURSE OUTCOMES** | | | | | Skill to apply the anatomic knowledges  Skill to analyze the datum.  Skill to have active writen / oral comminication.  Skill to work in group  To realize the profesional responsibility  Skill to use school material which are selected according to the topic. | | | | | | | | |
| **TEXTBOOK** | | | | | Sobotta,Atlas of Human Anatomi 1977  Hacettepe Üniv.Tıp Fakültesi Ders notları, 1976 | | | | | | | | |
| **OTHER REFERENCES** | | | | | Prof.Dr.Ortuğ G.Anatomi,A.Ü.AçıkÖğretimFakültesiYayınları,  Eskişehir,1991  Dr.Özden M.Anatomi ve Fizyoloji Ders Kitabı,Feryal Mat.,Ankara,2003 | | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Barcovision – power point presentation ,other education maquettes,atlas of human anatomy,computer, UZEMOYS | | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | The importance of the anatomy and its subbranches, Anatomic terms and concepts |
| 2 | Locomotor system- bones-joints |
| 3 | Locomotor system- skeletal muscles |
| 4 | Cardio-vasculer system- heart |
| 5 | Cardio-vasculer system-vessels |
| 6 | Respiratory system |
| 7 | Digestive system |
| 8 | Uriner System |
| 9 | Central nervous System |
| 10 | Peripheral nervous system |
| 11 | Woman’s genital organs |
| 12 | Man’s genital organs |
| 13 | Endocrine system |
| 14 | Sense organs |
| 15,16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | Contribute to the level of professional knowledge | **X** |  |  |
| 2 | Develop professional communication skills | **X** |  |  |
| 3 | Create to current information on the ability of the program to reach | **X** |  |  |
| 4 | Gain the ability to communicate and exchange information with counterparts in the field of professional practice. | **X** |  |  |
| 5 | Gain awareness of the application of the rules of professional deontology | **X** |  |  |
| 6 | Have a basic level of knowledge related to the field of health | **X** |  |  |
| 7 | Be able to use technological products related to the field | **X** |  |  |
| 8 | Gain required hand skills related to the field | **X** |  |  |
| 9 | Gain the habit of ability to practice sterilization, disinfection, and antisepsi |  |  | **X** |
| 10 | Gain the ability to solve problems that may arise during the professional practice in a healthy way | **X** |  |  |
| 11 | Gain the authority to make decisions quickly and accurately related to the field | **X** |  |  |
| 12 | Have information about the health care legislation |  |  | **X** |
| 13 | Gain awareness of professional responsibility | **X** |  |  |
| 14 | Gain the required knowledge and experience in occupational safety |  |  | **X** |
| 15 | Contribute to the intellectual level | **X** |  |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**

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| logoo | **ESOGU Vocational School of Health Services**  **Department of Medical Services and Techniques**  **Medical Imaging Techniques Program**  **Course Information Form** |

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| **Term** | FALL |

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| **COURSE CODE** | 211411184 | **COURSE NAME** | PHYSIOLOGY |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | |
| **Theory** | | **Practice** | **Laboratory** | | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** |
| 1 | 2 | | 0 | 0 | | | 2 | 3 | COMPULSORY (**X**) ELECTIVE ( ) | | | Turkish |
| **COURSE CATAGORY** | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** | |
|  | | x | | | |  | | | | |  | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | | **Evaluation Type** | | | | | **Quantity** | | **%** |
| 1st Mid-Term | | | | |  | | 40 |
| 2nd Mid-Term | | | | |  | |  |
| Quiz | | | | |  | |  |
| Homework | | | | |  | |  |
| Project | | | | |  | |  |
| Report | | | | |  | |  |
| Others (………) | | | | |  | |  |
| **FINAL EXAM** | | | | |  | | | | |  | | 60 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | | |
| **COURSE DESCRIPTION** | | | | | Definition of physiology terminology, definition of basic physiological concepts, explanation of functional properties of organs and systems | | | | | | | |
| **COURSE OBJECTIVES** | | | | | The students who take the course should comprehend the vital relationships of the cells, tissues, organs and systems that make up the human body, have knowledge about the functions and basic working mechanisms of these systems, and be able to use this knowledge by blending it with other vocational courses. | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | | | 1. To have the basic knowledge necessary to work in the pathology laboratory.  2. To have the basic skills necessary to work in the pathology laboratory.  3. To have knowledge about the theoretical foundations of pathology. | | | | | | | |
| **COURSE OUTCOMES** | | | | | At the end of the courses, the student;  1-Defines physiology terminology,  2-Defines basic physiological concepts,  3- Comprehend the vital relations of cells, tissues, organs and systems with each other,  4-Understand the functions of body systems,  5- Gains knowledge about the basic working mechanisms of the body. | | | | | | | |
| **TEXTBOOK** | | | | | 1- Kus G., İnsan Beden Yapısı ve Fizyolojisi, Anadolu Üniversitesi  https://yokdersleri.yok.gov.tr/#ders | | | | | | | |
| **OTHER REFERENCES** | | | | | 1**-**Yaman M.O., Fizyoloji, İstanbul Üniversitesi  https://yokdersleri.yok.gov.tr/#ders | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Computer, projection, UZEMOYS. | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Physiology, Pathology, Homeostasis |
| 2 | Cell Organization |
| 3 | Substance Transport |
| 4 | Bone Tissue and Its Functions |
| 5 | Electrical Properties of Cell Membrane |
| 6 | Muscle Physiology |
| 7 | Nervous System Physiology |
| 8 | Circulatory Physiology |
| 9 | Blood Physiology |
| 10 | Digestive System Physiology |
| 11 | Excretory System Physiology |
| 12 | Hormonal System Physiology |
| 13 | Reproductive System Physiology |
| 14 | An overview |
| 15,16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | Contribute to the level of professional knowledge | **X** |  |  |
| 2 | Develop professional communication skills | **X** |  |  |
| 3 | Create to current information on the ability of the program to reach |  | **X** |  |
| 4 | Gain the ability to communicate and exchange information with counterparts in the field of professional practice. | **X** |  |  |
| 5 | Gain awareness of the application of the rules of professional deontology |  | **X** |  |
| 6 | Have a basic level of knowledge related to the field of health | **X** |  |  |
| 7 | Be able to use technological products related to the field | **X** |  |  |
| 8 | Gain required hand skills related to the field | **X** |  |  |
| 9 | Gain the habit of ability to practice sterilization, disinfection, and antisepsi | **X** |  |  |
| 10 | Gain the ability to solve problems that may arise during the professional practice in a healthy way | **X** |  |  |
| 11 | Gain the authority to make decisions quickly and accurately related to the field | **X** |  |  |
| 12 | Have information about the health care legislation |  | **X** |  |
| 13 | Gain awareness of professional responsibility |  | **X** |  |
| 14 | Gain the required knowledge and experience in occupational safety |  | **X** |  |
| 15 | Contribute to the intellectual level |  | **X** |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**

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| logoo | **ESOGU Vocational School of Health Services**  **Department of Medical Services and Techniques**  **Medical Imaging Techniques Program**  **Course Information Form** |

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| **SEMESTER** | FALL |

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| **COURSE CODE** | 211411190 | **COURSE NAME** | MEDICAL IMAGING II |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | |
| **Theory** | | **Practice** | **Laboratory** | | | **Credit** | **ECTS** | **TYPE** | | **LANGUAGE** |
| 1 | 2 | | 0 | 0 | | | 2 | 3 | COMPULSORY (**X**) ELECTIVE ( ) | | Turkish |
| **COURSE CATAGORY** | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** |
| X | |  | | | |  | | | | |  |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | | **Evaluation Type** | | | | | **Quantity** | **%** |
| 1st Mid-Term | | | | | 1 | 40 |
| 2nd Mid-Term | | | | | - | - |
| Quiz | | | | | - | - |
| Homework | | | | | 1 | - |
| Project | | | | | - | - |
| Report | | | | | - | - |
| Others (………) | | | | | - | - |
| **FINAL EXAM** | | | | |  | | | | | 1 | 60 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | |
| **COURSE DESCRIPTION** | | | | | Computarized tomography's (CT), magnetic resonance examination's (MRG) filming methods and cross-sectional anatomy positioning in body departments. Basic interventional methods. | | | | | | |
| **COURSE OBJECTIVES** | | | | | Section filming methods in sectional imaging methods like CT and MRG and cross- sectional anatomy. vascular and nonvascular basic interventional methods. | | | | | | |
| **ADDITIVE OF COURSE TO APPLY PROFESSIONAL EDUATION** | | | | | Students will learn CT and MRG filming, cross-sectional anatomy, basic interventional methods and quality evaluations. | | | | | | |
| **COURSE OUTCOMES** | | | | | Students will find out quality evaluations in section filming methods, basic interventional methods and radiological examinations. | | | | | | |
| **TEXTBOOK** | | | | | Kaya T. , Ozkan R., Adapınar B.  Basic Radiology Technique 5. press  Nobel Medical Bookstore, 2016 | | | | | | |
| **OTHER REFERENCES** | | | | | Özdemir, İ. (2015). Temel Tıbbi (Radyolojik) Görüntüleme Tekniği. Hiperlink Yayınları | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Computer, projection, radiological instruments and equipment, UZEMOYS | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Celebral CT and MR filming methods and cross-sectional anatomy |
| 2 | Hypophysis CT and MR filming methods and cross-sectional anatomy |
| 3 | Ortiba CT and MR filming methods and cross-sectional anatomy |
| 4 | Temporal bone CT and MR filming methods and cross-sectional anatomy |
| 5 | Paranazal sinuses CT and MR filming methods and cross-sectional anatomy |
| 6 | Neck CT and MR filming methods and cross-sectional anatomy |
| 7 | Larynx CT and MR filming methods and cross-sectional anatomy |
| 8 | Vertebral CT and MR filming methods and cross-sectional anatomy |
| 9 | Thorax exeminations CT and MR filming methods and cross-sectional anatomy |
| 10 | Abdomen-pelvis CT and MR filming methods and cross-sectional anatomy |
| 11 | Apendices skeleton and joints CT and MR filming methods and cross-sectional anatomy |
| 12 | Interventional radiology 1 (vacular) |
| 13 | Interventional radiology 2 (non vacular) |
| 14 | Quality evoluation in CT and MR |
| 15,16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | Contribute to the level of professional knowledge | **X** |  |  |
| 2 | Develop professional communication skills | **X** |  |  |
| 3 | Create to current information on the ability of the program to reach | **X** |  |  |
| 4 | Gain the ability to communicate and exchange information with counterparts in the field of professional practice. | **X** |  |  |
| 5 | Gain awareness of the application of the rules of professional deontology | **X** |  |  |
| 6 | Have a basic level of knowledge related to the field of health | **X** |  |  |
| 7 | Be able to use technological products related to the field | **X** |  |  |
| 8 | Gain required hand skills related to the field | **X** |  |  |
| 9 | Gain the habit of ability to practice sterilization, disinfection, and antisepsi | **X** |  |  |
| 10 | Gain the ability to solve problems that may arise during the professional practice in a healthy way | **X** |  |  |
| 11 | Gain the authority to make decisions quickly and accurately related to the field | **X** |  |  |
| 12 | Have information about the health care legislation | **X** |  |  |
| 13 | Gain awareness of professional responsibility | **X** |  |  |
| 14 | Gain the required knowledge and experience in occupational safety | **X** |  |  |
| 15 | Contribute to the intellectual level | **X** |  |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**

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| **Term** | SPRING |

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| **COURSE CODE** | 211412157 | **COURSE NAME** | MEDICAL IMAGING APPLICATIONS I |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | |
| **Theory** | | **Practice** | **Laboratory** | | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** |
| 2 | 0 | | 6 | 0 | | | 3 | 6 | COMPULSORY (**X** ) ELECTIVE ( ) | | | Turkish |
| **COURSE CATAGORY** | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** | |
| X | |  | | | |  | | | | |  | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | | **Evaluation Type** | | | | | **Quantity** | | **%** |
| 1st Mid-Term | | | | |  | |  |
| 2nd Mid-Term | | | | |  | |  |
| Quiz | | | | |  | |  |
| Homework | | | | |  | |  |
| Project | | | | |  | |  |
| Report | | | | |  | |  |
| Others (………) | | | | |  | |  |
| **FINAL EXAM** | | | | | Applications | | | | | 1 | | 100 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | | |
| **COURSE DESCRIPTION** | | | | | The methods of direct radiography, their positioning, anatomical structures on radiographs and evaluation and application of radiography, digital x-ray and mammography | | | | | | | |
| **COURSE OBJECTIVES** | | | | | Positioning of the head, spine, extremities, hips, lungs, abdomen and nipples and direct graphs to gain knowledge and skills through applications related to anatomical structures. | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | | | The students will learn the basic anatomical information about radiographic exposure and the basic features of direct radiography by using the applications to be given. | | | | | | | |
| **COURSE OUTCOMES** | | | | | To give basic knowledge about radiographic positioning and anatomy and to learn the details of applying direct radiography methods. | | | | | | | |
| **TEXTBOOK** | | | | | Kaya T.,Özkan R.,Adapınar B. Temel Radyoloji Tekniği 5.Baskı Nobel Tıp Kitap Evi,2016. | | | | | | | |
| **OTHER REFERENCES** | | | | |  | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Computer, power point presentation, UZEMÖYS | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Head and spine shots application |
| 2 | Head and spine positioning application |
| 3 | Head and spine anatomy application |
| 4 | Application of extremities and hip shots |
| 5 | Extremities and hip positioning practice |
| 6 | Extremities and hip anatomy practice |
| 7 | Lung shots application |
| 8 | Breast and abdomen shots application |
| 9 | Lung positioning application |
| 10 | Breast and abdomen positioning application |
| 11 | Lung anatomy application |
| 12 | Breast and abdomen anatomy application |
| 13 | Pediatric radiographs 1 application |
| 14 | Pediatric radiographs 2 application |
| 15-16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | Contribute to the level of professional knowledge | **X** |  |  |
| 2 | Develop professional communication skills | **X** |  |  |
| 3 | Create to current information on the ability of the program to reach | **X** |  |  |
| 4 | Gain the ability to communicate and exchange information with counterparts in the field of professional practice. | **X** |  |  |
| 5 | Gain awareness of the application of the rules of professional deontology | **X** |  |  |
| 6 | Have a basic level of knowledge related to the field of health | **X** |  |  |
| 7 | Be able to use technological products related to the field | **X** |  |  |
| 8 | Gain required hand skills related to the field | **X** |  |  |
| 9 | Gain the habit of ability to practice sterilization, disinfection, and antisepsi | **X** |  |  |
| 10 | Gain the ability to solve problems that may arise during the professional practice in a healthy way | **X** |  |  |
| 11 | Gain the authority to make decisions quickly and accurately related to the field | **X** |  |  |
| 12 | Have information about the health care legislation | **X** |  |  |
| 13 | Gain awareness of professional responsibility | **X** |  |  |
| 14 | Gain the required knowledge and experience in occupational safety | **X** |  |  |
| 15 | Contribute to the intellectual level | **X** |  |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**

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| **Term** | SPRING |

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| **COURSE CODE** | 211412153 | **COURSE NAME** | MEDICAL IMAGING APPLICATIONS II |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | |
| **Theory** | | **Practice** | **Laboratory** | | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** |
| 2 | 0 | | 6 | 0 | | | 3 | 6 | COMPULSORY (**X** ) ELECTIVE ( ) | | | Turkish |
| **COURSE CATAGORY** | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** | |
| X | |  | | | |  | | | | |  | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | | **Evaluation Type** | | | | | **Quantity** | | **%** |
| 1st Mid-Term | | | | |  | |  |
| 2nd Mid-Term | | | | |  | |  |
| Quiz | | | | |  | |  |
| Homework | | | | |  | |  |
| Project | | | | |  | |  |
| Report | | | | |  | |  |
| Others (………) | | | | |  | |  |
| **FINAL EXAM** | | | | | Applications | | | | | 1 | | 100 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | | |
| **COURSE DESCRIPTION** | | | | | Computer tomography in body parts, magnetic resonance imaging methods and cross-sectional anatomy positions. Application of basic interventional methods. | | | | | | | |
| **COURSE OBJECTIVES** | | | | | Shooting methods and cross-sectional anatomy in cross-sectional imagingmethods such as computed tomography (CT) and magnetic resonance imaging (MRI). Vascular and non-vascular basic interventional methods to observe and practice in practice. | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | | | Students will learn CT and MRI imaging, cross-sectional anatomy, basic interventional methods and quality assessment. | | | | | | | |
| **COURSE OUTCOMES** | | | | | They will understand the cross-sectional imaging methods, basic interventional methods and quality assessment in radiological examinations during the application. | | | | | | | |
| **TEXTBOOK** | | | | | Kaya T.,Özkan R.,Adapınar B. Temel Radyoloji Tekniği 5.Baskı Nobel Tıp Kitap Evi,2016. | | | | | | | |
| **OTHER REFERENCES** | | | | |  | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Computer, power point presentation, UZEMÖYS | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | CT and MRI security and patient interrogation |
| 2 | Cerebral CT and MRI imaging applications. |
| 3 | Pituitary CT and MRI imaging applications. |
| 4 | Orbital CT and MRI imaging applications. |
| 5 | Temporal bone CT and MRI imaging applications. |
| 6 | Paranasal sinuses CT and MRI imaging applications. |
| 7 | Neck CT and MRI imaging applications. |
| 8 | Laryngeal CT and MRI imaging applications. |
| 9 | Vertebral examinations CT and MRI imaging applications. |
| 10 | Thorax examinations CT and MRI imaging applications. |
| 11 | Abdomen-pelvic CT and MRI imaging applications. |
| 12 | Appendicular skeletons and joints CT and MRI imaging applications. |
| 13 | Interventional radiology applications. |
| 14 | Interventional Radiology 2 non vascular |
| 15-16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | Contribute to the level of professional knowledge | **X** |  |  |
| 2 | Develop professional communication skills | **X** |  |  |
| 3 | Create to current information on the ability of the program to reach | **X** |  |  |
| 4 | Gain the ability to communicate and exchange information with counterparts in the field of professional practice. | **X** |  |  |
| 5 | Gain awareness of the application of the rules of professional deontology | **X** |  |  |
| 6 | Have a basic level of knowledge related to the field of health | **X** |  |  |
| 7 | Be able to use technological products related to the field | **X** |  |  |
| 8 | Gain required hand skills related to the field | **X** |  |  |
| 9 | Gain the habit of ability to practice sterilization, disinfection, and antisepsi | **X** |  |  |
| 10 | Gain the ability to solve problems that may arise during the professional practice in a healthy way | **X** |  |  |
| 11 | Gain the authority to make decisions quickly and accurately related to the field | **X** |  |  |
| 12 | Have information about the health care legislation | **X** |  |  |
| 13 | Gain awareness of professional responsibility | **X** |  |  |
| 14 | Gain the required knowledge and experience in occupational safety | **X** |  |  |
| 15 | Contribute to the intellectual level | **X** |  |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**

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| **Term** | SPRING |

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| **COURSE CODE** | 211412155 | **COURSE NAME** | HEALTH CARE MANAGEMENT |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | | |
| **Theory** | | **Practice** | **Labratory** | | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** | |
| 2 | 2 | | 0 | 0 | | | 2 | 3 | COMPULSORY (**X** ) ELECTIVE ( ) | | | Turkish | |
| **COURSE CATAGORY** | | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** | | |
|  | |  | | | |  | | | | | X | | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | | **Evaluation Type** | | | | | **Quantity** | | | **%** |
| 1st Mid-Term | | | | | 1 | | | 50 |
| 2nd Mid-Term | | | | |  | | |  |
| Quiz | | | | |  | | |  |
| Homework | | | | |  | | |  |
| Project | | | | |  | | |  |
| Report | | | | |  | | |  |
| Others (………) | | | | |  | | |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | | | 50 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | | | |
| **COURSE DESCRIPTION** | | | | | The concept of management Principles of management. The historical development of management. Management functions. Health services, properties, classification, functions. Health services management. Work of the organization of health services Hospitals. The basic features of hospitals, hospitals’ functions Health establishments of patients' rights and ethical contemporary approaches to health care | | | | | | | | |
| **COURSE OBJECTIVES** | | | | | The purpose of this course is to introduce the basic concepts of management. İn addition to this, the corse will transfer the main principal of health care management to application. | | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | | | Taking this course, students will apply the profession and professional life in hospitals. They will gain information about health care management | | | | | | | | |
| **COURSE OUTCOMES** | | | | | 1. learn about management concept. 2. learn about the history of management. 3. learn about management principles. 4. learn about management functions. 5. obtain knowledge about Health Care. 6. obtain knowledge about Hospital management | | | | | | | | |
| **TEXTBOOK** | | | | | Tengilimioğlu D., Işık,O., Akbolat M.(2012) Sağlık Işletmeleri yönetimi. Ankara Nobel Yayınları | | | | | | | | |
| **OTHER REFERENCES** | | | | | Ertürk M. (1995) İşletmelerde Yönetim ve Organizasyon İstanbul Beta Yayın. Hayran O., Haydar S. Sağlık Hizmetleri El Kitabı (1998) İstanbul Yüce Yayın | | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Basic textbook, power point presentation, UZEMÖYS | | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Definition of management. General characteristics of management |
| 2 | The historical development of management: Classical management approach, behavioral management approach, a modern management approach |
| 3 | Management functions: planning, organizing, directing, co-ordination and control |
| 4 | Health services. Health care activities, health services, properties and classification of health care services |
| 5 | Health system and the environment. Relations with the external environment on the health system. |
| 6 | Hospital building types |
| 7 | Historical development and organization of health services. Health transformation programs. Organization of health services in Turkey |
| 8 | Hospital management. Characteristics of the hospitals. Classification of Hospitals |
| 9 | Hospitals, building management |
| 10 | Patient rights in Turkey. |
| 11 | The concept of ethics and morality in Health Care Facilities. Mobbing, Mobbing Health Administration Process. |
| 12 | Contemporary Approaches in Health Care Facilities |
| 13 | Total Quality Management in Health Services |
| 14 | Training in health centers. Leadership. of hospital management. Teamwork |
| 15-16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | Contribute to the level of professional knowledge | **X** |  |  |
| 2 | Develop professional communication skills | **X** |  |  |
| 3 | Create to current information on the ability of the program to reach | **X** |  |  |
| 4 | Gain the ability to communicate and exchange information with counterparts in the field of professional practice. | **X** |  |  |
| 5 | Gain awareness of the application of the rules of professional deontology | **X** |  |  |
| 6 | Have a basic level of knowledge related to the field of health | **X** |  |  |
| 7 | Be able to use technological products related to the field | **X** |  |  |
| 8 | Gain required hand skills related to the field | **X** |  |  |
| 9 | Gain the habit of ability to practice sterilization, disinfection, and antisepsi |  |  | **X** |
| 10 | Gain the ability to solve problems that may arise during the professional practice in a healthy way | **X** |  |  |
| 11 | Gain the authority to make decisions quickly and accurately related to the field | **X** |  |  |
| 12 | Have information about the health care legislation | **X** |  |  |
| 13 | Gain awareness of professional responsibility | **X** |  |  |
| 14 | Gain the required knowledge and experience in occupational safety | **X** |  |  |
| 15 | Contribute to the intellectual level | **X** |  |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**

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| **Term** | FALL |

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| **COURSE CODE** | 211413253 | **COURSE NAME** | PROFESSIONAL ETHICS |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | |
| **Theory** | | **Practice** | **Laboratory** | | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** |
| 3 | 2 | | 0 | 0 | | | 2 | 3 | COMPULSORY (**X** ) ELECTIVE ( ) | | | Turkish |
| **COURSE CATAGORY** | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** | |
|  | |  | | | |  | | | | | X | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | | **Evaluation Type** | | | | | **Quantity** | | **%** |
| 1st Mid-Term | | | | | 1 | | 50 |
| 2nd Mid-Term | | | | |  | |  |
| Quiz | | | | |  | |  |
| Homework | | | | |  | |  |
| Project | | | | |  | |  |
| Report | | | | |  | |  |
| Others (………) | | | | |  | |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | | 50 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | | |
| **COURSE DESCRIPTION** | | | | | What is ethics ? What are the main ethical approaches and principles. ?  Professional ethics and codes | | | | | | | |
| **COURSE OBJECTIVES** | | | | | Be aware of ethics in everyday medical practice, to take responsibility and apply professional ethics codes. | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | | | Understanding the basic ethical concepts and learning, understanding and application of professional ethical responsibility | | | | | | | |
| **COURSE OUTCOMES** | | | | | To be sensitive to the values​​, codes of ethics to maintain their professional activities, to respect rights | | | | | | | |
| **TEXTBOOK** | | | | | Cevizci A.(2002). Introduction to ethics. Paradigma .İstanbul.  Pehlivan İ.(1998). Management of organizational ethics. Pegem.ankara | | | | | | | |
| **OTHER REFERENCES** | | | | |  | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Computer, power point presentation, UZEMÖYS | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | What is philosophy, content and areas of application |
| 2 | What is moral ? the definition of general and natural laws and content of moral |
| 3 | What is the moral action, how it is evaluated, the different approaches |
| 4 | Ethics ,as a moral philosophy, purpose, content and methods. |
| 5 | Differences in ethical morality, ethics’ parts and components |
| 6 | Functions of ethics, theoretical and applied ethics |
| 7 | Types of ethics: Descriptive, formatives and meta ethics |
| 8 | Main ethical approaches: Virtue ethics and Liberal individualism: Rights-based theory |
| 9 | Main ethical approaches: Kantian Ethics, Utilitarianism |
| 10 | Main ethics principles: Beneficence , non maleficence |
| 11 | Main ethics principles: Respect for autonomy, Concept of autonomy, Justice and nonmaleficence |
| 12 | Definition of professional ethics and content |
| 13 | Professional ethics codes |
| 14 | Ethical awareness and ethical sensitivity in professional practice |
| 15-16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | Contribute to the level of professional knowledge | **X** |  |  |
| 2 | Develop professional communication skills | **X** |  |  |
| 3 | Create to current information on the ability of the program to reach |  | **X** |  |
| 4 | Gain the ability to communicate and exchange information with counterparts in the field of professional practice. | **X** |  |  |
| 5 | Gain awareness of the application of the rules of professional deontology | **X** | **X** |  |
| 6 | Have a basic level of knowledge related to the field of health |  | **X** |  |
| 7 | Be able to use technological products related to the field |  |  | **X** |
| 8 | Gain required hand skills related to the field |  |  | **X** |
| 9 | Gain the habit of ability to practice sterilization, disinfection, and antisepsi |  | **X** |  |
| 10 | Gain the ability to solve problems that may arise during the professional practice in a healthy way |  | **X** |  |
| 11 | Gain the authority to make decisions quickly and accurately related to the field | **X** |  |  |
| 12 | Have information about the health care legislation | **X** |  |  |
| 13 | Gain awareness of professional responsibility |  | **X** |  |
| 14 | Gain the required knowledge and experience in occupational safety | **X** |  |  |
| 15 | Contribute to the intellectual level |  |  |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**

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| logoo | **ESOGU Vocational School of Health Services**  **Department of Medical Services and Techniques**  **Medical Imaging Techniques Program**  **Course Information Form** |

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| **Term** | FALL |

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| **COURSE CODE** | 211413254 | **COURSE NAME** | RADIOTHERAPY |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | |
| **Theory** | | **Practice** | **Laboratory** | | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** |
| 3 | 2 | | 0 | 0 | | | 2 | 3 | COMPULSORY (**X** ) ELECTIVE ( ) | | | Turkish |
| **COURSE CATAGORY** | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** | |
| X | |  | | | |  | | | | |  | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | | **Evaluation Type** | | | | | **Quantity** | | **%** |
| 1st Mid-Term | | | | | 1 | | 40 |
| 2nd Mid-Term | | | | |  | |  |
| Quiz | | | | |  | |  |
| Homework | | | | |  | |  |
| Project | | | | |  | |  |
| Report | | | | |  | |  |
| Others (………) | | | | |  | |  |
| **FINAL EXAM** | | | | |  | | | | | 1 | | 60 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | | |
| **COURSE DESCRIPTION** | | | | | Responsibilities of Radiation oncology technicians work as part of an oncology team to treat cancer patients with repeated targeted doses of radiation. A radiation oncology technician administers radiation therapy to patients according to a doctor's specific instructions. A technician is responsible for positioning the patient and adjusting the machines to ensure proper dosage. The technician operates the radiation therapy machinery safely from another room and monitors the patient's condition during treatment. | | | | | | | |
| **COURSE OBJECTIVES** | | | | | Technicians, to provide information about radiotherapy. | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | | | 1)Students complete clinical education at medical sites in the radiotherapy  2)How to use radiotherapy simulators and treatment machines  3) What are the responsibilities of a technician? | | | | | | | |
| **COURSE OUTCOMES** | | | | | -Apply to patients with cancer radiotherapy according to a doctor's instructions  - Learn Radiobiology information. | | | | | | | |
| **TEXTBOOK** | | | | | Gunderson and Tepper. 2012. Clinical Radiation Oncology.3th edition. Elsevier | | | | | | | |
| **OTHER REFERENCES** | | | | | Temel Radyasyon Onkolojisi. Doç Dr Murat Beyzadeoğlu.2008. | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | - Projection and computer.  -Radiation oncology clinic and treatment and planning machines. UZEMÖYS | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Biological basis of radiation oncology |
| 2 | Basic principles of radiotherapy |
| 3 | Interaction of ionizing radiation with biological materials |
| 4 | Early and late side effects of radiotherapy in normal tissue |
| 5 | Radiation safety in radiotherapy |
| 6 | General principles of radiotherapy treatment planning |
| 7 | Dose rate and fractionation effects |
| 8 | Atom and electron structure |
| 9 | Cobalt and simulator devices |
| 10 | Linear accelerator devices |
| 11 | Lung cancer radiotherapy |
| 12 | Breast cancer radiotherapy |
| 13 | Rectal cancer radiotherapy |
| 14 | Specialized radiotherapy techniques |
| 15,16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | Contribute to the level of professional knowledge | **X** |  |  |
| 2 | Develop professional communication skills | **X** |  |  |
| 3 | Create to current information on the ability of the program to reach | **X** |  |  |
| 4 | Gain the ability to communicate and exchange information with counterparts in the field of professional practice. | **X** |  |  |
| 5 | Gain awareness of the application of the rules of professional deontology | **X** |  |  |
| 6 | Have a basic level of knowledge related to the field of health | **X** |  |  |
| 7 | Be able to use technological products related to the field | **X** |  |  |
| 8 | Gain required hand skills related to the field | **X** |  |  |
| 9 | Gain the habit of ability to practice sterilization, disinfection, and antisepsi | **X** |  |  |
| 10 | Gain the ability to solve problems that may arise during the professional practice in a healthy way | **X** |  |  |
| 11 | Gain the authority to make decisions quickly and accurately related to the field | **X** |  |  |
| 12 | Have information about the health care legislation | **X** |  |  |
| 13 | Gain awareness of professional responsibility | **X** |  |  |
| 14 | Gain the required knowledge and experience in occupational safety | **X** |  |  |
| 15 | Contribute to the intellectual level | **X** |  |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**

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| **Term** | FALL |

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| **COURSE CODE** | 211413256 | **COURSE NAME** | MEDICAL IMAGING APPLICATIONS III |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | |
| **Theory** | | **Practice** | **Laboratory** | | | **Credit** | **ECTS** | | **TYPE** | | **LANGUAGE** |
| 3 | 0 | | 6 | 0 | | | 3 | 7 | | COMPULSORY (**X** ) ELECTIVE ( ) | | Turkish |
| **COURSE CATAGORY** | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** | |
|  | | X | | | |  | | | | |  | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | | **Evaluation Type** | | | | **Quantity** | | | **%** |
| 1st Mid-Term | | | |  | | |  |
| 2nd Mid-Term | | | |  | | |  |
| Quiz | | | |  | | |  |
| Homework | | | |  | | |  |
| Project | | | |  | | |  |
| Report | | | |  | | |  |
| Others (………) | | | |  | | |  |
| **FINAL EXAM** | | | | | APPLICATIONS | | | | 1 | | | 100 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | | |
| **COURSE DESCRIPTION** | | | | | Direct imaging, flouroscopy, computed tomography (CT), magnetic resonance imaging (MR) imaging applications in diseases. | | | | | | | |
| **COURSE OBJECTIVES** | | | | | To acquire the knowledge, skills and practice related to imaging of diseases by direct radiography, flouroscopy, computed tomography (CT), magnetic resonance imaging (MR) in diseases. | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | | | Students will learn to apply direct radiography, fluoroscopy, computed tomography (CT), magnetic resonance imaging (MR) techniques in diseases. | | | | | | | |
| **COURSE OUTCOMES** | | | | | Learning and application of direct radiography, fluoroscopy, computed tomography (CT), magnetic resonance imaging (MR) techniques in diseases. | | | | | | | |
| **TEXTBOOK** | | | | | Kaya T.,Özkan R.,Adapınar B. Temel Radyoloji Tekniği 5.Baskı Nobel Tıp Kitap Evi,2016. | | | | | | | |
| **OTHER REFERENCES** | | | | |  | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Computer, power point presentation, UZEMOYS | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Radiologic imaging applications in heart and circulatory system diseases I |
| 2 | Radiologic imaging applications in heart and circulatory system diseasesII |
| 3 | Radiological imaging applications in respiratory system diseases I |
| 4 | Radiological imaging applications in respiratory system diseases II |
| 5 | Radiologic imaging applications in central nervous system diseases I |
| 6 | Radiologic imaging applications in central nervous system diseases II |
| 7 | Radiological imaging applications in digestive system diseases I |
| 8 | Radiological imaging applications in digestive system diseases II |
| 9 | Radiological imaging applications in digestive system diseases II |
| 10 | Radiological imaging applications in urinary system diseases I |
| 11 | Radiological imaging applications in urinary system diseases II |
| 12 | Radiological imaging applications in male and female genital system diseases |
| 13 | Radiologic imaging applications in skeletal system diseases |
| 14 | Radiological imaging applications in breast and endocrine system diseases |
| 15-16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | Contribute to the level of professional knowledge | **X** |  |  |
| 2 | Develop professional communication skills | **X** |  |  |
| 3 | Create to current information on the ability of the program to reach | **X** |  |  |
| 4 | Gain the ability to communicate and exchange information with counterparts in the field of professional practice. | **X** |  |  |
| 5 | Gain awareness of the application of the rules of professional deontology | **X** |  |  |
| 6 | Have a basic level of knowledge related to the field of health | **X** |  |  |
| 7 | Be able to use technological products related to the field | **X** |  |  |
| 8 | Gain required hand skills related to the field | **X** |  |  |
| 9 | Gain the habit of ability to practice sterilization, disinfection, and antisepsi | **X** |  |  |
| 10 | Gain the ability to solve problems that may arise during the professional practice in a healthy way | **X** |  |  |
| 11 | Gain the authority to make decisions quickly and accurately related to the field | **X** |  |  |
| 12 | Have information about the health care legislation | **X** |  |  |
| 13 | Gain awareness of professional responsibility | **X** |  |  |
| 14 | Gain the required knowledge and experience in occupational safety | **X** |  |  |
| 15 | Contribute to the intellectual level | **X** |  |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**

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| logoo | **ESOGU Vocational School of Health Services**  **Department of Medical Services and Techniques**  **Medical Imaging Techniques Program**  **Course Information Form** |

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| **Term** | FALL |

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| **COURSE CODE** | 211413258 | **COURSE NAME** | NUCLEAR MEDICINE |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | |
| **Theory** | | **Practice** | | **Laboratory** | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** |
| 3 | 2 | | 4 | | 0 | | 4 | 6 | COMPULSORY (**X** ) ELECTIVE ( ) | | | Turkish |
| **COURSE CATAGORY** | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** | |
|  | |  | | | |  | | | | |  | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | **Evaluation Type** | | | | | | **Quantity** | | **%** |
| 1st Mid-Term | | | | | | 1 | | 50 |
| 2nd Mid-Term | | | | | |  | |  |
| Quiz | | | | | |  | |  |
| Homework | | | | | |  | |  |
| Project | | | | | |  | |  |
| Report | | | | | |  | |  |
| Others (………) | | | | | |  | |  |
| **FINAL EXAM** | | | |  | | | | | | 1 | | 50 |
| **PREREQUIEITE(S)** | | | | None | | | | | | | | |
| **COURSE DESCRIPTION** | | | | Radioactive materials used in the diagnosis and treatment of diseases are prepared and given to the patient, imaging methods and application techniques, working principles and quality control of devices, effects of radiation and radiation protection | | | | | | | | |
| **COURSE OBJECTIVES** | | | | To introduce students to the purpose, content and application areas of nuclear medicine | | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | | To gain knowledge and skills about the applications of nuclear medicine investigations. | | | | | | | | |
| **COURSE OUTCOMES** | | | | Knows the preparation and use of radionuclide and radiopharmaceuticals used in the diagnosis and treatment of diseases. | | | | | | | | |
| **TEXTBOOK** | | | | 1. Diagnostic Nuclear Medicine. Martin P. Sandler (Ed), R. Coleman (Ed), James A. Patton (Ed), Frans J. Wackers; Alexander Gottschalk (Ed), Lippincott Williams & Wilkins; 4th edition, October 2002, ISBN: 0781732522 2. Essentials of Nuclear Medicine Imaging. Ferd A Mettler, Milton J. Guiberteau. 5. ed, November 23, 2005, ISBN: 0721602010 3. Physics in Nuclear Medicine. Simon R, Cherry, James Sorenson, Michael Phelps. 3.ed, Saunders, July 18, 2003, ISBN: 072168341X | | | | | | | | |
| **OTHER REFERENCES** | | | | Physics in Nuclear Medicine.(2012) Simon R, Cherry, James Sorenson, Michael Phelps. 4.ed, Saunders ISBN: 1416051988 | | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | Projection and computer  Nuclear medicine planning and treatment devices, UZEMOYS | | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Definition of nuclear medicine |
| 2 | Atomic and nuclear physics and radiation concepts |
| 3 | Types of radiation and its interaction with matter |
| 4 | Radioactive agents and pharmaceuticals used in nuclear medicine |
| 5 | Radioactivity detection systems |
| 6 | Radiation protection |
| 7 | Biological effects of radiation |
| 8 | Skeletal system imaging, nervous system imaging nuclear medicine applications |
| 9 | Endocrine system imaging, gastrointestinal system imaging, urinary system imaging nuclear medicine applications |
| 10 | Respiratory system imaging |
| 11 | Circulatory system imaging applications |
| 12 | Oncological imaging |
| 13 | PET/CT nuclear medicine applications |
| 14 | Radionuclide Therapy applications |
| 15,16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | Contribute to the level of professional knowledge | **X** |  |  |
| 2 | Develop professional communication skills | **X** |  |  |
| 3 | Create to current information on the ability of the program to reach | **X** |  |  |
| 4 | Gain the ability to communicate and exchange information with counterparts in the field of professional practice. | **X** |  |  |
| 5 | Gain awareness of the application of the rules of professional deontology | **X** |  |  |
| 6 | Have a basic level of knowledge related to the field of health | **X** |  |  |
| 7 | Be able to use technological products related to the field | **X** |  |  |
| 8 | Gain required hand skills related to the field | **X** |  |  |
| 9 | Gain the habit of ability to practice sterilization, disinfection, and antisepsi | **X** |  |  |
| 10 | Gain the ability to solve problems that may arise during the professional practice in a healthy way | **X** |  |  |
| 11 | Gain the authority to make decisions quickly and accurately related to the field | **X** |  |  |
| 12 | Have information about the health care legislation | **X** |  |  |
| 13 | Gain awareness of professional responsibility | **X** |  |  |
| 14 | Gain the required knowledge and experience in occupational safety | **X** |  |  |
| 15 | Contribute to the intellectual level | **X** |  |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**

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| **Term** | SPRING |

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| **COURSE CODE** | 211414238 | **COURSE NAME** | MEDICAL IMAGING PROFESSIONAL APPLICATIONS I |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | |
| **Theory** | | **Practice** | **Laboratory** | | | **Credit** | **ECTS** | | **TYPE** | | **LANGUAGE** |
| 4 | 0 | | 6 | 0 | | | 3 | 6 | | COMPULSORY (**X** ) ELECTIVE ( ) | | Turkish |
| **COURSE CATAGORY** | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** | |
| X | |  | | | |  | | | | |  | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | | **Evaluation Type** | | | | **Quantity** | | | **%** |
| 1st Mid-Term | | | |  | | |  |
| 2nd Mid-Term | | | |  | | |  |
| Quiz | | | |  | | |  |
| Homework | | | |  | | |  |
| Project | | | |  | | |  |
| Report | | | |  | | |  |
| Others (………) | | | |  | | |  |
| **FINAL EXAM** | | | | | APPLICATIONS | | | | 1 | | | 100 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | | |
| **COURSE DESCRIPTION** | | | | | Methods of direct radiography, positioning, anatomical structures on radiographs and evaluation and application of radiography, digital x-ray and mammography. | | | | | | | |
| **COURSE OBJECTIVES** | | | | | It is to gain knowledge and skills through applications related to head, spine, extremities, hip, lung, abdomen and breast positioning and anatomical structures in direct graphs. | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | | | The students will learn the basic anatomical knowledge related to the principle of radiographic positioning, and the applications of the basic features of the direct radiographs. | | | | | | | |
| **COURSE OUTCOMES** | | | | | To give basic knowledge about radiographic positioning and anatomy and to learn the details of application of direct radiography methods. | | | | | | | |
| **TEXTBOOK** | | | | | Kaya T.,Özkan R.,Adapınar B. Temel Radyoloji Tekniği 5.Baskı Nobel Tıp Kitap Evi,2016. | | | | | | | |
| **OTHER REFERENCES** | | | | |  | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Computer, power point presentation, UZEMOYS | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Application of head and spine shots |
| 2 | Head and spinal positioning practice |
| 3 | Head and spine anatomy application |
| 4 | Extremity and hip shooting applications |
| 5 | Extremity and hip positioning practice |
| 6 | Extremity and hip anatomy application |
| 7 | Application of lung filming |
| 8 | Application of breast, abdominal filming |
| 9 | Application of lung positioning |
| 10 | Application of breast, abdominal positioning |
| 11 | Lung anatomy application |
| 12 | Breast, abdomen anatomy application |
| 13 | Pediatric graphs 1 application |
| 14 | Pediatric graphs 2 application |
| 15-16 | FINAL EXAM |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** |
| 1 | Contribute to the level of professional knowledge | **X** |  |  |
| 2 | Develop professional communication skills | **X** |  |  |
| 3 | Create to current information on the ability of the program to reach | **X** |  |  |
| 4 | Gain the ability to communicate and exchange information with counterparts in the field of professional practice. | **X** |  |  |
| 5 | Gain awareness of the application of the rules of professional deontology | **X** |  |  |
| 6 | Have a basic level of knowledge related to the field of health | **X** |  |  |
| 7 | Be able to use technological products related to the field | **X** |  |  |
| 8 | Gain required hand skills related to the field | **X** |  |  |
| 9 | Gain the habit of ability to practice sterilization, disinfection, and antisepsi | **X** |  |  |
| 10 | Gain the ability to solve problems that may arise during the professional practice in a healthy way | **X** |  |  |
| 11 | Gain the authority to make decisions quickly and accurately related to the field | **X** |  |  |
| 12 | Have information about the health care legislation | **X** |  |  |
| 13 | Gain awareness of professional responsibility | **X** |  |  |
| 14 | Gain the required knowledge and experience in occupational safety | **X** |  |  |
| 15 | Contribute to the intellectual level | **X** |  |  |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**

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| logoo | **ESOGU Vocational School of Health Services**  **Department of Medical Services and Techniques**  **Medical Imaging Techniques Program**  **Course Information Form** |

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| **Term** | SPRING |

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| **COURSE CODE** | 211414239 | **COURSE NAME** | MEDICAL IMAGING PROFESSIONAL APPLICATIONS II |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | |
| **Theory** | | **Practice** | **Laboratory** | | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** |
| 4 | 0 | | 6 | 0 | | | 3 | 6 | COMPULSORY (**X** ) ELECTIVE ( ) | | | Turkish |
| **COURSE CATAGORY** | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** | |
| X | |  | | | |  | | | | |  | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | | **Evaluation Type** | | | | | **Quantity** | | **%** |
| 1st Mid-Term | | | | |  | |  |
| 2nd Mid-Term | | | | |  | |  |
| Quiz | | | | |  | |  |
| Homework | | | | |  | |  |
| Project | | | | |  | |  |
| Report | | | | |  | |  |
| Others (………) | | | | |  | |  |
| **FINAL EXAM** | | | | | APPLICATIONS | | | | | 1 | | 100 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | | |
| **COURSE DESCRIPTION** | | | | | Computer tomography in body parts, magnetic resonance imaging methods and cross-sectional anatomy positions. Application of basic interventional methods. | | | | | | | |
| **COURSE OBJECTIVES** | | | | | Shooting methods and cross-sectional anatomy in cross-sectional imaging methods such as computed tomography (CT) and magnetic resonance imaging (MRI). Vascular and non-vascular basic interventional methods to observe and practice in practice. | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | | | Students will learn CT and MRI imaging, cross-sectional anatomy, basic interventional methods and quality assessment. | | | | | | | |
| **COURSE OUTCOMES** | | | | | They will understand the cross-sectional imaging methods, basic interventional methods and quality assessment in radiological examinations during the application. | | | | | | | |
| **TEXTBOOK** | | | | | Kaya T.,Özkan R.,Adapınar B. Temel Radyoloji Tekniği 5.Baskı Nobel Tıp Kitap Evi,2016. | | | | | | | |
| **OTHER REFERENCES** | | | | |  | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Computer, power point presentation, UZEMOYS | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | CT and MRI security and patient interrogation |
| 2 | Cerebral CT and MRI imaging applications. |
| 3 | Pituitary CT and MRI imaging applications. |
| 4 | Orbital CT and MRI imaging applications. |
| 5 | Temporal bone CT and MRI imaging applications. |
| 6 | Paranasal sinuses CT and MRI imaging applications. |
| 7 | Neck CT and MRI imaging applications. |
| 8 | Laryngeal CT and MRI imaging applications. |
| 9 | Vertebral examinations CT and MRI imaging applications. |
| 10 | Thorax examinations CT and MRI imaging applications. |
| 11 | Abdomen-pelvic CT and MRI imaging applications. |
| 12 | Appendicular skeletons and joints CT and MRI imaging applications. |
| 13 | Interventional radiology applications. |
| 14 | Interventional Radiology 2 non vascular |
| 15-16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** | |
| 1 | Contribute to the level of professional knowledge | **X** |  |  | |
| 2 | Develop professional communication skills | **X** |  |  | |
| 3 | Create to current information on the ability of the program to reach | **X** |  |  | |
| 4 | Gain the ability to communicate and exchange information with counterparts in the field of professional practice. | **X** |  |  | |
| 5 | Gain awareness of the application of the rules of professional deontology | **X** |  |  | |
| 6 | Have a basic level of knowledge related to the field of health | **X** |  |  | |
| 7 | Be able to use technological products related to the field | **X** |  |  | |
| 8 | Gain required hand skills related to the field | **X** |  |  | |
| 9 | Gain the habit of ability to practice sterilization, disinfection, and antisepsi | **X** |  |  | |
| 10 | Gain the ability to solve problems that may arise during the professional practice in a healthy way | **X** |  |  | |
| 11 | Gain the authority to make decisions quickly and accurately related to the field | **X** |  |  | |
| 12 | Have information about the health care legislation | **X** |  |  | |
| 13 | Gain awareness of professional responsibility | **X** |  |  | |
| 14 | Gain the required knowledge and experience in occupational safety | **X** |  |  | |
| 15 | Contribute to the intellectual level | **X** |  |  | |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**

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| logoo | **ESOGU Vocational School of Health Services**  **Department of Medical Services and Techniques**  **Medical Imaging Techniques Program**  **Course Information Form** |

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| **Term** | SPRING |

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| **COURSE CODE** | 211414240 | **COURSE NAME** | MEDICAL IMAGING PROFESSIONAL APPLICATIONS III |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | | | | | | **COURSE OF** | | | | | |
| **Theory** | | **Practice** | **Laboratory** | | | **Credit** | **ECTS** | **TYPE** | | | **LANGUAGE** |
| 4 | 0 | | 6 | 0 | | | 3 | 6 | COMPULSORY (**X** ) ELECTIVE ( ) | | | Turkish |
| **COURSE CATAGORY** | | | | | | | | | | | | |
| **Basic Vocational Courses** | | **Basic Field Courses** | | | | **Social Courses** | | | | | **Supportive Courses** | |
| X | |  | | | |  | | | | |  | |
| **ASSESSMENT CRITERIA** | | | | | | | | | | | | |
| **MID-TERM EXAM** | | | | | **Evaluation Type** | | | | | **Quantity** | | **%** |
| 1st Mid-Term | | | | |  | |  |
| 2nd Mid-Term | | | | |  | |  |
| Quiz | | | | |  | |  |
| Homework | | | | |  | |  |
| Project | | | | |  | |  |
| Report | | | | |  | |  |
| Others (………) | | | | |  | |  |
| **FINAL EXAM** | | | | | APPLICATIONS | | | | | 1 | | 100 |
| **PREREQUIEITE(S)** | | | | | None | | | | | | | |
| **COURSE DESCRIPTION** | | | | | Direct imaging, flouroscopy, computed tomography (CT), magnetic resonance imaging (MR) imaging applications in diseases. | | | | | | | |
| **COURSE OBJECTIVES** | | | | | To acquire the knowledge, skills and practice related to imaging of diseases by direct radiography, flouroscopy, computed tomography (CT), magnetic resonance imaging (MR) in diseases. | | | | | | | |
| **CONTRIBUTION TO APPLY PROFESSIONAL EDUCATION ON COURSE** | | | | | Students will learn to apply direct radiography, fluoroscopy, computed tomography (CT), magnetic resonance imaging (MR) techniques in diseases. | | | | | | | |
| **COURSE OUTCOMES** | | | | | Learning and application of direct radiography, fluoroscopy, computed tomography (CT), magnetic resonance imaging (MR) techniques in diseases. | | | | | | | |
| **TEXTBOOK** | | | | | Kaya T.,Özkan R.,Adapınar B. Temel Radyoloji Tekniği 5.Baskı Nobel Tıp Kitap Evi,2016. | | | | | | | |
| **OTHER REFERENCES** | | | | |  | | | | | | | |
| **TOOLS AND EQUIPMENTS REQUIRED** | | | | | Computer, power point presentation, UZEMOYS | | | | | | | |

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| **COURSE SYLLABUS** | |
| **WEEK** | **TOPICS** |
| 1 | Radiologic imaging applications in heart and circulatory system diseases I |
| 2 | Radiologic imaging applications in heart and circulatory system diseases II |
| 3 | Radiological imaging applications in respiratory system diseases I |
| 4 | Radiological imaging applications in respiratory system diseases II |
| 5 | Radiologic imaging applications in central nervous system diseases I |
| 6 | Radiologic imaging applications in central nervous system diseases II |
| 7 | Radiological imaging applications in digestive system diseases I |
| 8 | Radiological imaging applications in digestive system diseases II |
| 9 | Radiological imaging applications in digestive system diseases III |
| 10 | Radiological imaging applications in urinary system diseases I |
| 11 | Radiological imaging applications in urinary system diseases II |
| 12 | Radiological imaging applications in male and female genital system diseases |
| 13 | Radiologic imaging applications in skeletal system diseases |
| 14 | Radiological imaging applications in breast and endocrine system diseases |
| 15-16 | FINAL EXAM |

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| **NO** | **PROGRAM OUTCOMES** | **3** | **2** | **1** | |
| 1 | Contribute to the level of professional knowledge | **X** |  |  | |
| 2 | Develop professional communication skills | **X** |  |  | |
| 3 | Create to current information on the ability of the program to reach | **X** |  |  | |
| 4 | Gain the ability to communicate and exchange information with counterparts in the field of professional practice. | **X** |  |  | |
| 5 | Gain awareness of the application of the rules of professional deontology | **X** |  |  | |
| 6 | Have a basic level of knowledge related to the field of health | **X** |  |  | |
| 7 | Be able to use technological products related to the field | **X** |  |  | |
| 8 | Gain required hand skills related to the field | **X** |  |  | |
| 9 | Gain the habit of ability to practice sterilization, disinfection, and antisepsi | **X** |  |  | |
| 10 | Gain the ability to solve problems that may arise during the professional practice in a healthy way | **X** |  |  | |
| 11 | Gain the authority to make decisions quickly and accurately related to the field | **X** |  |  | |
| 12 | Have information about the health care legislation | **X** |  |  | |
| 13 | Gain awareness of professional responsibility | **X** |  |  | |
| 14 | Gain the required knowledge and experience in occupational safety | **X** |  |  | |
| 15 | Contribute to the intellectual level | **X** |  |  | |
| **1**:None. **2**:Partially contribution. **3**: Completely contribution. | | | | |

**Instructor(s):**

**Signature**: **Date:**