

OPERATING ROOM SERVICES PROGRAM 2024-2025 COURSE CONTENTS

I. SEMESTER

ATA103-ATATURK'S PRINCIPLES AND HISTORY OF REVOLUTION I (2+0), ECTS:2

Definitions of concepts, course methods and definition of resources. Industrial Revolution and French Revolution. Dissolution of the Ottoman Empire (19th Century). Tanzimat and Islahat Edict, I. and II. Constitutional Monarchy. I. World, Tripoli and Balkan Wars. Mondros Armistice, Wilson Principles, Paris Conference. M. Kemal's Arrival in Samsun and the Situation in Anatolia. Amasya Circular, National Congresses, Opening of the Chamber of Deputies. Establishment of the TBMM and Internal Revolts. Fundamental Organization Law, Establishment of the Regular Army. I. II. Inonu, Kutahya-Eskisehir and Sakarya Field Battles and the Great Offensive. Agreements during the War of Independence. Lausanne Peace Treaty. Abolition of the Sultanate

MYO006-INTRODUCTION TO BIOMEDICAL TECHNOLOGY (BSEC) (2+0), ECTS:2

Introduction to Biomedical Technology, Fundamentals. Biomedical Ethics. Biomechanics (Mechanical Properties of the Muscular and Skeletal System). Biomechanics (Mechanical Properties of the Respiratory and Circulatory System). Bioelectronics. Bioelectrical Events and Biosignals (EEG, ECG, EMG). Biomedical Measurement and Instrumentation. Modeling of Physiological Systems. Types and Properties of Biomedical Devices. Types and Properties of Biomedical Devices. Quality and Safety Standards of Biomedical Devices, Use and Maintenance of Biomedical Devices. Biomaterials. Bioinformatics Technologies, Clinical Engineering Applications

RKUL 103-UNIVERSITY CULTURE I (ÜSEÇ) (0+2), ECTS:4

Each semester includes seminars, conferences, panels, workshops and interviews to be held for 14 weeks within the framework of a program consisting of the suggestions of the academic units, student council and student clubs at the university.

INGU103-ENGLISH I (2+0), ECTS: 2

Introduction, verb to be, subject pronouns. Demonstrative pronouns, countable/uncountable nouns, quantifiers. Simple present tense, frequency adverbs. object pronouns, possessive adjectives, have got/has got. -meli,-malı,(must/mustn t)-abilirsiniz,-abilirsiniz(can/can t). Past tense (Simple Past Tense). Present tense. Conjunctions (and-but-so-because). Comparisons.

TURK103-TURKISH LANGUAGE I (2+0), ECTS:2

Language and its features; The relationship of language, which is a social institution, with the nation, culture and thought; Classification of world languages and the place and importance of Turkish among these languages; Historical development periods of spoken language, written language and Turkish written language; Current status and spreading areas of Turkish, sounds and sound events in Turkish; Syllable information, vowel and consonant sounds in Turkish words; Spelling rules and punctuation marks.

AML101-SURGICAL DISEASES KNOWLEDGE I (2+0), ECTS:5

Includes Historical Development of Surgery, Basic Theoretical Concepts of Surgery, Wound and Healing Process, Pre-Operative, During and Post-Operative Periods, GIS Diseases, Breast Surgery Diseases, Endocrine Diseases, Musculoskeletal System Diseases, Brain Surgery Diseases and Applied Surgical Interventions, Tissue and Organ Transplantation.

RPSI209-POSITIVE PSYCHOLOGY AND COMMUNICATION SKILLS (ÜSEÇ) (2+0), ECTS:3

Definition of positive psychology, basic concepts, theoretical foundations and applications. Examining the brain behavior systems of emotional experience and behavior. Knowing oneself and others. Psychosocial life skills and problem solving skills. Motivation and planning. Anger, aggression, violence. Relationship management, healthy decision making. Persistence and compromise.

MYO101-BASIC ANATOMY AND PHYSIOLOGY (3+0), ECTS:4

Introduction to Anatomy and Physiology, Cell theory, Cell organelles, Substance exchange, Cell metabolism, Locomotor System Anatomy and Bone, Joint and Muscle Physiology, Respiratory System Anatomy and Physiology, Circulatory System Anatomy and Physiology, Digestive System Anatomy and Physiology, Urinary System Anatomy and Physiology, Genital System Anatomy and Physiology, Endocrine System, Anatomy and Physiology, Nervous System Anatomy and Physiology, Sense Organs Anatomy and Physiology.

MIK101 - BASIC MICROBIOLOGY (2+0), ECTS:2

History, development and basic concepts of microbiology; Working rules to be applied in the laboratory; General tools-devices and microscopes used in microbiology; Classification and general characteristics of microorganisms; Structure, reproduction characteristics, metabolism of bacteria; Genetics of bacteria and antimicrobial substances; Infection and transmission routes, sterilization and disinfection; Environments where microorganisms are produced, Paints and staining methods; General information about staphylococci, streptococci, pneumococci and bacilli, fungi; General information about viruses, some important viral diseases; Normal flora and sampling techniques; Introduction to immunology, antigen-antibody reactions; Microbiological diagnostic methods.

MYO003-MEDICAL TERMINOLOGY (2+0), ECTS:2

Rules of reading terms, Prefixes, Suffixes, Types of terms, Movement system, Blood terms, Cardiovascular system terms, Respiratory system terms, Digestive system terms, Urinary system terms, Genital system terms, Endocrine system terms, Nervous system terms and psychiatry terms, Sense organs terms, Diagnostic terms.

SECOND SEMESTER

AML100-OPERATING ROOM MANAGEMENT (2+0), ECTS:6

Surgical Asepsis and Infection Control in the Operating Room (Surgical Hand Washing and Drying). Ensuring Asepsis in the Operating Room (Wearing/Dressing Sterile Shirt and Glove). Preparation Process of the Patient for Surgery (Urinary Catheterization, Skin Cleaning and Preparation, Draping). Surgical Positions in the Operating Room. Physical Structure of the Operating Room. Operating Room Organization and Management. Preparation of Mayo table. Surgical Instruments, Sutures and Materials used in the Operating Room. Patient Safety and Safe Surgery in the Operating Room (Wrong person, area and procedure, Forgetting foreign objects, electrical and chemical burns). Employee Safety in the Operating Room (Sharp and Stabbing Injuries, Latex Allergy, Fire Safety, Surgical Smoke, Chemical Safety, Radiation Safety). Environmental Safety and Waste Management in the Operating Room. Operating Room Cleaning. Recording and Documentation in the Operating Room. Operating Room Team Roles and Responsibilities.

ATA101- ATATURK'S PRINCIPLES AND HISTORY OF REVOLUTIONS II (2+0) ECTS:2

The Treaty of Lausanne and Its Evaluation. Revolutions in the Political Field, Proclamation of the Republic and Abolition of the Caliphate. Attempts to Transition to Multi-Party Political Life. Revolutions in the Field of Law. Revolutions in the Social Field. Revolutions in the Field of Education and Economy. Turkish Foreign Policy Between 1923-1938. Turkish Foreign Policy Between 1938-1950. Democrat Party Government and Adnan Menderes Period (1950-1960). 1960 Coup and Political Developments Afterwards. Domestic Politics of Turkey Between 1980-2002. Fundamental Principles of Turkish Revolution (Ataturk's Principles and Integrative Principles). Ataturk's Revolutions, Rationalism and Scientific Thought; Republicanism and Populism. Nationalism and Statism; Secularism and Revolutionism.

AML116-SURGICAL DISEASES INFORMATION II (2+0), ECTS:5

It includes topics such as plastic surgery and burns, respiratory system diseases, ear nose throat diseases, cardiovascular system diseases, gynecological diseases and cesarean section, eye diseases and surgical treatment, genitourinary system diseases and surgical treatment, pediatric diseases and surgical treatment, minimally invasive surgery.

INGU104-ENGLISH II (2+0), ECTS:2

Demonstrative Pronouns, Possessive Pronouns. Past Continuous Tense. Reading and vocabulary exercises (Simple Past Tense&Past Continuous Tense). Preposition of Time and Place. Present Perfect Tense. Possessive "s", Adverbs of manner. Future Tense. Making Suggestions&Requests. Gerunds – Infinitives. Modals (must,should,have to,don't have to,may).

AML120-PROFESSIONAL PRACTICES I (0+4), ECTS:6

Surgical Hand Washing and Hand Drying Application. Sterile Pack Opening Application. Sterile Package Opening Application. Sterile Surgical Shirt and Sterile Glove Wearing Application. Sterile Surgical Shirt and Sterile Glove Wearing Application. Surgical Positions Application in the Operating Room. Preparation of Mayo Table and Instrumentation Application. Surgical Instruments, Consumables and Suture Application. Patient Preparation Process for Surgery (Side Surgery, Urinary Catheterization, Skin Shaving etc.) Application. Patient Painting and Draping Application. Patient Safety (Surgical Count, Electrocautery, Cautery Plate etc.) Application. Infection Control and Waste Regulation Application.

AML114-PRINCIPLES OF STERILIZATION (BSEC) (2+0), ECTS:5

Historical Development of Sterilization, Disinfection and Antisepsis. Introduction to Sterilization, Disinfection and Antisepsis. Factors Belonging to Microorganisms. Concepts Relating to Hospital Infections. Hospital Infections and Transmission Routes. Sterilization Methods. Sterilization Rules and Control. Disinfection Methods. Disinfection Rules and Control. Mechanisms of Action of Disinfectants and Antiseptics. Asepsis Techniques and Applications. Types of Sterilizers. Central Sterilization Unit.

TURK104-TURKISH LANGUAGE II (2+0), ECTS:2

What is language; world languages, the place of Turkish among them and its historical development. Problems of Turkish today with current texts. Spelling of “de”, “ki” and “mi” with current texts. Problems related to spelling of Turkish words with compiled texts. Textual analysis: Analysis of a scientific article. Applications related to spelling rules and punctuation marks. Textual analysis: Analysis of a column. Applications with expression disorders, grammatical errors. Turkish as a scientific language with sample texts.

RKUL104- UNIVERSITY CULTURE I (ÜSEÇ) (0+2), ECTS:4

Each term includes seminars, conferences, panels, workshops and speeches to be held for 14 weeks within the framework of a program consisting of the suggestions of the academic units, student council and student clubs at the university.

III. SEMESTER**AML219-PROFESSIONAL PRACTICES II (2+8), ECTS:15**

Incision and Suture Techniques in Surgery. Drains Used in Surgery. General Surgery Operating Room Applications. Urology Operating Room Applications. Obstetrics and Gynecology Operating Room Applications. Brain Surgery Operating Room Applications. Orthopedics Operating Room Applications. Cardiovascular Surgery Operating Room Applications. Minimally Invasive Surgery. Robotic Surgery. Hybrid Operating Room.

AML221-PATIENT SAFETY (2+0), ECTS:6

The concept and importance of patient safety. Prevention of surgical errors. Prevention of infection errors. Prevention of falls. Prevention of medication errors. Prevention of blood and blood transfusion lines. Prevention of baby/child abductions. Prevention of suicides. Prevention of serious injuries and deaths due to restrictions. Prevention of errors due to delays in treatments. Prevention of errors with SBAR technique. Incident reporting in patient safety. Case study.

SHY101-HEALTH SERVICES MANAGEMENT (2+0), ECTS:2

Definition of Management, Historical Development and Functions, Characteristics, Classification and Functions of Health Services, Development and Organization of Health Services in Turkey, National and International Health Policies, Hospital Management, Health Services Financing, Human Resources Management in Healthcare Organizations, Marketing Management in Healthcare Organizations, Public Relations and Communication in Healthcare Organizations, Patient Rights and Ethics in Healthcare Organizations, Contemporary Approaches in Healthcare Organizations.

AML213-INTRODUCTION TO ANESTHESIA (BSEC) (2+0), ECTS:6

History and definition of anesthesia. Duties and responsibilities of anesthesia technician. Types of anesthesia. Drug administration and drug administration methods. Patient Monitoring. Patient positions. Pain and analgesic use. Anesthesia Complications.

ELECTIVE COURSE (2+0), ECTS:2

4th SEMESTER

AML200-VOCATIONAL PRACTICES III (0+8), ECTS:15

Application (Vocational Education in Business) Patient preparation and follow-up before, during and after surgery. Rules to be followed in surgeries. Equipment used in surgeries. Surgical materials and surgical sets used in surgeries. Operating room environments.

ILK101-FIRST AID (2+0), ECTS:3

General First Aid Information, Human Body, Patient/Injured and Crime Scene Assessment, Basic Life Support, (Basic Life Support for Adults), Basic Life Support (Basic Life Support for Children and Babies), First Aid for Respiratory Tract Obstructions, First Aid for Bleeding and Shock, First Aid for Injuries, First Aid for Burns, Frostbite, Heat Stroke, First Aid for Loss of Consciousness, First Aid for Poisoning, First Aid for Animal Bites, First Aid for Foreign Objects in the Eyes, Ears and Nose, First Aid for Drowning, First Aid for Fractures, Dislocations and Sprains, Patient/Injured Carrying Techniques.

KGS101-QUALITY ASSURANCE AND STANDARDS (2+0), ECTS:3

Quality and its definition, standardization and its definition, benefits of standardization for business, for consumers and for the economy, standardization studies conducted in Turkey, international standardization studies and examples, Quality approaches, Total quality management, Quality assurance, ISO 9000 standards, Professional quality standards.

SAH101 -HEALTH LAW (2+0), ECTS:3

Basic Concepts of Health Law, Patient Rights, Physician Rights, Privacy in Medical Intervention, Medical Intervention, Unlawful Medical Intervention, Legal Dimensions of Patient and Hospital Relationship, Concept of Medical Error and Its Legal Dimension.

MET101-PROFESSIONAL ETHICS (BSEC) (2+0), ECTS:2

What is Ethics? / A Look at Ethical Theories / Basic Concepts: Responsibility, Accountability and Liability / Ethical Analysis. Society and Information Ethics: Two-Way Relationship Between Society and Technology Effects of Information Technologies; Optimistic, Pessimistic, Contextual Views Why Information Ethics? The Role of Information Ethics. Addiction, Health Problems, Unemployment, Social Relations. Security, Abuse and Cyber Crimes. Human Rights and Patient Rights. Hospital Ethics Committees. Informed Consent and Types. Principles of medical professional ethics and deontology. Patient Safety Ethics. Malpractice in Operating Room Services.

OTY211 -PHYSICAL EDUCATION AND BODYBUILDING (BSEC) (0+2), ECTS:3

The concept of training, the basic purpose and basic tasks of training, the effect of training on the organism and the changes it causes, the relationship between loading and rest in training, the criteria of loading, aerobic training and flexibility studies, aerobic training and flexibility studies, isometric work principles abdominal studies (individual), eccentric-concentric work principles, body hold studies theory, reverse body hold studies theory, dynamic (isotonic) work principles, concentric studies theory, eccentric studies theory, studies on the theory of strength studies done with various tools.