

# **HEALTH SERVICES VOCATIONAL SCHOOL OPERATING ROOM SERVICES PROGRAM 2019-2020**

## **FIRST YEAR FALL SEMESTER**

### **MYO101 BASIC ANATOMY AND PHYSIOLOGY**

Introduction to Anatomy and Physiology and short terminology, Axes, planes, Terms of direction and direction; general information. Cell Theory, Structural features, Cell organelles, Cell division; Substance exchange, Metabolism. Locomotor System Anatomy and Physiology- Osteology. Locomotor System; The Arthrology; General information, joint types, movements. The Myology; Anatomy. Contraction mechanism, Striped muscles, heart muscle, smooth muscles physiology. Respiratory System Anatomy and Physiology. Nose, Paranasal sinuses, Larynx, trachea, Lungs. Physiology of breathing, ventilation, diffusion, perfusion, breathing regulation. Anatomy and Physiology of the Heart-Circulatory System. Blood: tasks, components, shaped elements of blood, blood groups. Metabolism of the heart, heart sounds. Cardiac spaces, Vessels. Anatomy and Physiology of the digestive system I. Mouth anatomy, Chewing muscles, Pharynx, Oesophagus, Stomach, Small-large intestines, Kc. Gallbladder, Pancreas, Digestive glands. Digestive System II. Digestion in the mouth, stomach, digestion in the small and large intestines. KCl. functions, CHO digestion, Digestion of fat-proteins. Vitamin-Mineral-Electrolyte functions. Urinary System Anatomy and Physiology. Function of kidneys, nephron, urine formation, fluid-electrolyte balance. Distribution of water in the organism, Electrolytes-vaccine-base balance. Renin-angiotensin system. Genital organs-reproductive physiology. Female and male genital organs. Hormonal control of the reproductive system, hypothalamus, pituitary, gonodotrop hormones. Ovarian hormones, reproductive cycle. Endocrine system anatomy and physiology. Internal glands, their functions. Physiological functions and classification of hormones. Hormones and target cells. Nervous system Anatomy and Physiology. Development of nerve tissue, neuron, neuron types, functions, synapses, neuroglia cells. SSS and PSS Sense organs, Anatomy and Physiology. Ways of seeing, ways of hearing and balance.

### **AML101 SURGICAL DISEASES KNOWLEDGE I**

Introduction to Surgery (History of Surgery, Conditions Requiring Surgery, Classification of Surgery, Effect of Surgery on Patient). Basic Theoretical Concepts in Surgery (homeostasis, pain, anxiety, surgical asepsis). Body Responses to Trauma (Inflammation, Wound / wound types, Incision / Incision types, Wound healing, Factors affecting wound healing). Preoperative Period. Operation Sequence (Intraoperative) Period. Post-operative (Postoperative) Period. Gastrointestinal System (GIS) Surgical Diseases And Surgical Treatment 1. GIS Surgical Diseases And Surgical Treatment 2. Breast Diseases And Surgical Treatment. Endocrine Diseases And Surgical Treatment. Tissue And Organ Transplantation. Musculoskeletal System Diseases And Surgical Treatment 1. Musculoskeletal System Diseases And Surgical Treatment 2. Nervous System Diseases And Surgical Treatment

**MIK101 BASIC MICROBIOLOGY (BZSEÇ)**

Introduction to Medical Microbiology. Medical Bacteriology and Morphological Properties of Bacteria. Bacterial Metabolism and Reproduction. Bacterial Genetics. Bacterial Virulence Factors. Antimicrobial Substances. Medical Bacteriology. Medical Virology. Medical Parasitology. Medical Mycology. Relationships Between Microorganisms and Microorganism Human Relations. Sterilization, Disinfection and Antisepsis. Basic Immunology. General Principles of Laboratory Diagnosis.

**MYO006 INTRODUCTION TO BIOMEDICAL TECHNOLOGY**

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

**RPSI209 POSITIVE PSYCHOLOGY AND COMMUNICATION SKILLS (ÜZSEÇ)**

Definition of Positive Psychology and Learning of Basic Concepts. Learning the Theoretical Bases of Positive Psychology. Learning the Brain Infrastructure of Social Behaviors. Learning Emotional Intelligence, Emotional Intelligence in Adults, Children and Young People, Marriage and Business Life, Principles of Emotional Intelligence, Personality Development of Emotional Intelligence, Marriage and Work Life. Learning Concepts Related to Self Awareness and Awareness. Learning to Know Others and Empathy Concepts. Learning Communication Skills. Learning Motivation and Planning Skills. Learning Problem Solving Skills. Learning Anger Control Skills. Learning Relationship Management Skills. Learning Concept of Persistence and Impulse Control Skills. Learning Healthy Decision Making Skills. Learning Concepts of Reconciliation.

**TURK101 TURKISH LANGUAGE I**

Learns the necessity of the connection between language and culture. Gains knowledge of the historical course of Turkish language. Learns the rules of spelling and punctuation, need and contribution to life success. Learn the use of words in the most appropriate place in oral and written expression. They learn how to use their ideas and feelings correctly and effectively.

**INGU101 ENGLISH I**

Meet, verb, subject pronouns. Sign pronouns, countable / uncountable nouns, quantitative expressions. Wide time (Simple present tense), frequency envelopes. object pronouns, possessive adjectives, have got / has got. should, should, (must / mustn t) can, can (can / can t). Past tense (Simple Past Tense). Understands and comments on listening at the relevant level. Increases vocabulary with various reading texts. Present tense. Conjunctions (and-but-so-because). Comparisons. Gains the ability to understand various English reading passages in the middle lower level.

**ATA101 ATATÜRK PRINCIPLES AND REVOLUTION HISTORY I**

Define concepts, lesson methods and definition of resources. The Industrial Revolution and the French Revolution. Distribution of the Ottoman State (XIX. Century). Tanzimat and Reform Edict, I. and II. Constitutionalism. World I, Tripoli and Balkan Wars. Mondros Armistice Treaty, Wilson Principles, Paris Conference. The Exit of M. Kemal to Samsun and the Situation in Anatolia. Amasya Circular, National Congresses, Opening of the Mebusan Assembly. Establishment of the Parliament

and Internal Revolts. Organization Law, Establishment of Regular Army. I. II. Great Attack with İnönü, Kütahya-Eskişehir and Sakarya Square Battles. Treaties during the War of Independence. The Lausanne Peace Treaty. Abolition of the Sultanate.

#### **RKUL101 UNIVERSITY CULTURE I (ÜZSEÇ)**

Each semester, academic units, student council and student clubs suggestions  
Seminars, conferences, panels that will be held for 14 weeks within the framework of a program consisting of Includes workshops and utterances.

#### **MYOO003 MEDICAL TERMINOLOGY**

Introduction to Terminology, Reading rules of terms. Prefixes, Suffixes. Term types. Motion System Terms. Blood Terms. Cardiovascular System Terms. Respiratory System Terms. Digestive System Terms. Urinary System Terms. Genital System Terms. Endocrine System Terms. Nervous System and Psychiatric Terms. Sensory Organs Terms. Diagnostic Terms

### **1st CLASS SPRING SEMESTER**

#### **AML114 STERILIZATION PRINCIPLES (BZSEÇ)**

Course Introduction. Historical Development of Sterilization, Disinfection and Antisepsis. Introduction to Sterilization, Disinfection and Antisepsis. Factors of Microorganism. General Concepts of Infectious Diseases. Infection Ways of Infectious Diseases. Hospital Infections. Sterilization Methods. Disinfection Methods. Sterilization and Disinfection Rules and Control. Effect Mechanisms of Disinfectants and Antiseptics. Asepsis Techniques and Applications. Types of Sterilizers. Central Sterilization Unit.

#### **AML116 SURGICAL DISEASES KNOWLEDGE II**

Plastic surgery and burns, respiratory system diseases, otolaryngology diseases, cardiovascular system diseases, gynecology and cesarean, eye diseases and surgical treatment, genitourinary system diseases and surgical treatment, pediatric diseases and surgical treatment, minimal Includes invasive surgery.

#### **AML118 OPERATING ROOM APPLICATIONS I**

Operating Theater Team, Roles and Responsibilities, Physical Structure of the Operating Room Organization and Management, Patient / employee / Environmental Safety in the Operating Room, in the Operating Room  
Infection Control, Preparation of Operating Room Table, Surgery Applied in the Operating Room Positions, Registration and Documentation in the Operating Room and Ethics in the Operating Room comprising.

#### **RKUL102 UNIVERSITY CULTURE II (ÜZSEÇ)**

Each semester, academic units, student council and student clubs suggestions  
Seminars, conferences, panels that will be held for 14 weeks within the framework of a program consisting of Includes workshops and utterances.

**ATA102 ATATÜRK'S PRINCIPLES AND HISTORY OF REVOLUTION II**

Political Revolutions: Abolition of the Sultanate, Declaration of the Republic, Abolition of the Caliphate Constitutional Movements Transition to Multiparty Life Revolutions in Law and New Law Revolutions in the Field of Education and Culture in the Social Field Turkish Revolutions in Atatürk Period (1923-1938) Atatürk's Principles: MNRepublicanism, Nationalism, Populism, Etatism, Secularism, Revolutionism Complementary Principles After Atatürk Turkey (internal and external political developments)

**TURK102 TURKISH LANGUAGE II**

Words and their meaning, words in terms of their meanings, real, side and metaphor meanings of words, idioms, dilemmas, terms, language mistakes, sentence structure of Turkish, sentence elements, sentence analysis, types of written expression such as novels, articles, essays, poems, presentations, reports and minutes examples, petition, business letter and CV writing, conversation and discussion.

**INGU102 ENGLISH II**

Markers; Pre-Prepositions: Location, Time, Movement; Singular and Plural Names: Countable and uncountable names; Times: Wide time, Present time, Past time structures; Modes: Will, Should, Shouldn't, Must, Mustn't, Can; Comparative Structures; Fairings: Personal titles, Possessive titles; Adjectives; Positive Sentence, Negative sentence and question sentences; Conjunctions: And, But, While-While, Because.

**MET101 PROFESSIONAL ETHICS**

What is Ethics? / A View of Ethical Theories / Basic Concepts: Responsibility, Accountability and Liability / Ethical Analysis. Society and Information Ethics: Two Way Relationship Between Society and Technology Information Technologies. Effects; Optimist, Pessimist, Contextual Views Why IT Ethics? The Task of IT Ethics. Addiction, Health Problems, Unemployment, Social Relations. Security, Abuse and Cybercrime. Human rights and Patient rights. Hospital ethics committees. Principles of medical professional ethics and deontology. Principles of medical professional ethics and deontology-presentation. Ethical case analysis - student presentation. Bioethics. Ethical issues and ethical decision making process, medical ethical dilemmas. Ethical behavior principles. Privacy. Case discussion.

## **SECOND YEAR FALL SEMESTER**

### **SHY101 HEALTH SERVICES MANAGEMENT**

Basic Concepts in Management and Historical Development of Management. Functions of Management. Health and Health Services Concepts. Classification and Functions of Health Services. Development and organization of health services in Turkey. National Health Policies. International Health Policies. Hospital Management. Healthcare 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.

### **AML207 INTRODUCTION TO ANESTHESIA (BZSEÇ)**

History and definition of anesthesia. Determination of the risk of anesthesia. Central gas system and anesthesia machine. Protection of the airway. Inhalation anesthetics. Intravenous anesthetics. Analgesics. Measuring the depth of anesthesia. Muscle relaxants. Spinal anesthesia applications. Epidural anesthesia applications. Peripheral nerve blocks.

### **AML205 OPERATING ROOM APPLICATIONS II**

Recognizes the operating room team and explains their responsibilities. Explains the physical structure and properties of the operating room. Knows the operation and organization of the operating room. Knows and understands the records and documentation used in the operating room. Explains the factors threatening patient and personnel safety and precautions to be taken. Knows the environmental safety and waste disposal methods in the operating room. Knows and knows the operating room materials. Infection control in the operating room; explains disinfection, antisepsis, sterilization methods. Explains the preparation of the operating table. Learns the materials used in the operating room. Explains the surgical positions used in the operating room and the methods to be considered.

### **AML215 PATIENT SAFETY (BZSEÇ)**

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

### **ELECTIVE COURSE MYO015 SOCIAL RESPONSIBILITY PROJECT**

The formation of social responsibility awareness. Developing a social responsibility project. To be able to run projects with team work. To be able to take part in activities affiliated to a non-governmental organization.

## **SECOND CLASS SPRING SEMESTER**

### **SAH101 HEALTH LAW**

Introduction to Health Law. Basic Concepts and Institutions of Health Law. Patient Rights and Concepts. Physician Rights and Concepts. Privacy in Medical Interventions. Lighting And Consent. Medical Intervention Illegality. Interventions Without Medical Indications. Relationships Between Hospitals and Patients, and Legal Nature. Legal Nature of the Relationship Between Private Hospitals and Patients. Legal Nature of the Relationship Between Public Hospitals and Patients. Incorrect Medical Practices And Compensation Problems.

### **KGS101 QUALITY ASSURANCE AND STANDARDS**

Quality and definition, standardization and definition, standardization for business, consumer and economy

For benefits, the standardization work carried out in Turkey, international standardization activities and examples, Quality approaches, Total quality management, Quality assurance, ISO 9000 standards,

Professional quality standards

### **AML204 OPERATING ROOM APPLICATIONS III**

Operating Theater Team, Roles and Responsibilities, Physical Structure of the Operating Room Organization and Management, Patient / employee / Environmental Safety in the Operating Room, in the Operating Room Infection Control, Preparation of Operating Room Table, Surgery Applied in the Operating Room Positions, Registration and Documentation in the Operating Room and Ethics in the Operating Room comprising.

### **OTY211 EXERCISE AND BODYBUILDING (BZSEÇ)**

The concept of training, the main purpose and basic tasks of training, the organism of training the effect on it and its changes, the relationship between loading and rest in training, loading criteria, aerobic training and flexibility exercises, aerobic training and flexibility studies, isometric working principles, abdominal studies (individual), eccentric-concentric study principles, body grip studies theory, reverse body grip studies theory, dynamic (isotonic) working principles, concentric studies theory, eccentric studies theory, done with various tools Studies on the theory of force studies

### **ILK101 FIRST AID**

General First Aid Information. Human Body, Patient / Wounded and Crime Scene Evaluation. Human Body, Patient / Wounded and Crime Scene Evaluation. Basic Life Support (Basic Life Support in Adults). Basic Life Support (Basic Life Support in Children and Infants), First Aid in Respiratory Obstruction. First Aid in Bleeding and Shock. First Aid in Injuries. First Aid in Burn, Freezing and Heat Stroke. First Aid in Consciousness Disorders. First Aid in Poisoning. First Aid in Animal Bites, First Aid in Eye, Ear and Nose Foreign Body Flee, First Aid in Drowning. First Aid in Fractures, Dislocations, Sprains. Patient / Wounded Transport Techniques. Patient / Wounded Transport Techniques.

### **AML999 SUMMER INTERNSHIP**

Operating Room Team, Roles and Responsibilities, Physical Structure of the Operating Room, Organization and Management in the Operating Room, Patient / Employee / Environmental Safety in the Operating Room, Infection Control in the Operating Room, Preparation of the Operating Room Table, Surgical Positions Applied in the Operating Room, Registration and Documentation in the

Operating Room, Ethics in the Operating Room, Sterile Dressing, Helping to Wear Sterile. Being able to provide sterilization.