

T.C ÜSKÜDAR UNIVERSITY
HEALTH SERVICES VOCATIONAL SCHOOL DIALYSIS PROGRAM
COURSE CONTENTS

2020-2021

1. CLASS FALL SEMESTER

MYO 101 BASIC ANATOMY AND PHYSIOLOGY THEORY 3 APPLICATION 0 CREDIT 3 ECTS 4

1. Introduction to Anatomy and Physiology and short terminology, Axes, planes, Terms that state location and direction; general information
2. Cell Theory, Structural features, Cell organelles, Cell division; Substance exchange, Metabolism
3. Locomotor System Anatomy and Physiology- Osteology
4. Locomotor System; The Artroloj; General information, joint types, movements. The Myoloj; Anatomy, Contraction mechanism, Striped muscles, heart muscle, smooth muscles physiology.
5. Respiratory System Anatomy and Physiology. Nose, Paranasal sinuses, Larynx, trachea, Lungs. Physiology of breathing, ventilation, diffusion, perfusion, breathing regulation.
6. 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.
7. Anatomy and Physiology of the digestive system I. Mouth anatomy, Chewing muscles, Pharynx, Oesophagus, Stomach, Small-large intestines, Kc. Gallbladder, Pancreas, Digestive glands..
8. Digestive System II. Digestion in the mouth, stomach, digestion in the small and large intestines. KCI. functions, CHO digestion, Digestion of fat-proteins.
9. Urinary System Anatomy and Physiology I Function of kidneys, nephron, urine formation, fluid-electrolyte balance. Distribution of water in the organism, Electrolytes-vaccine-base balance. Renin-angiotensin system.
10. Urinary System Anatomy and Physiology II Function of kidneys, nephron, urine formation, fluid-electrolyte balance. Distribution of water in the organism, Electrolytes-vaccine-base balance. Renin-angiotensin system.
11. Genital organs-reproductive physiology. Female and male genital organs. Hormonal control of the reproductive system, hypothalamus, pituitary, gonodotrop hormones. Ovarian hormones, reproductive cycle.
12. Endocrine system anatomy and physiology. Internal glands, their functions. Physiological functions and classification of hormones. Hormones and target cells.
13. Nervous system Anatomy and Physiology. Development of nerve tissue, neuron, neuron types, functions, synapses, neuroglia cells. FAQ and PSS
14. Sensory organs, Anatomy and Physiology. Ways of seeing, ways of hearing and balance.

**DYL101 BASIC MICROBIOLOGY AND INFECTIOUS DISEASES THEORY 3 APPLICATION 0
CREDIT 3 ECTS 4**

1. Introduction to Medical Microbiology
2. Medical Bacteriology and Morphological Properties of Bacteria
3. Bacterial Metabolism and Reproduction
4. Bacterial Genetics
5. Bacterial Virulence Factors
6. Antimicrobial Substances
7. Medical Bacteriology
8. Medical Virology
9. Medical Parasitology
10. Medical Mycology
11. Relations Between Microorganisms and Microorganism Human Relations
12. Sterilization, Disinfection and Antisepsis
13. Basic Immunology
14. General Principles of Laboratory Diagnosis

DYL113 PATIENT CARE PRINCIPLES THEORY 2 APPLICATION 2 CREDITS 3 ECTS 6

1. Basic Concepts in Patient Care
2. Health and Disease Concepts, Safe Hospital Environment
3. Vital Signs; Fever, Pulse, Arterial Blood Pressure, Respiration and Vital Findings
4. Vital Signs; Fever, Pulse, Arterial Blood Pressure, Respiration and Vital Findings
5. Hot-Cold Applications
6. Hospital Infections, Individual hygiene and care
7. Isolation-Asepsi- antisepsis-sterilization and disinfection
8. Decubut (Bed / Pressure Sore) Formation and Treatment
9. Blood Sugar Definition, Measurement and Diabetes
10. Urinary System and Problems
11. Drug Application Methods and Drug Preparation
12. Parenteral Drug Application
13. Intravenous Fluid Therapy
14. Caring for Chronic Disease and Terminal Patient

FAR103 BASIC PHARMACOLOGY THEORY 2 APPLICATION 0 CREDITS 2 ECTS 2

1. Introduction to pharmacology and toxicology, definition and general concepts
2. Medication routes
3. Toxic effects of drugs
4. Autonomic nervous system drugs
5. Cardiovascular system drugs
6. Drugs acting on central nervous system

7. Analgesic Drugs and Anesthetics
8. Drug abuse and addiction
9. Respiratory system drugs
10. Gastrointestinal system drugs
11. Autacoids and drugs effective on the endocrine system
12. Chemotherapeutics

**RPSI209 POSITIVE PSYCHOLOGY AND COMMUNICATION SKILLS THEORY 2 APPLICATION 0
CREDITS 2 ECTS 3**

1. Definition of Positive Psychology and Learning of Basic Concepts
2. Learning the Theoretical Bases of Positive Psychology
3. Learning the Brain Infrastructure of Social Behaviors
4. 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
5. Learning Concepts Related to Self-Awareness and Awareness
6. Learning the Concepts of Knowing Others and Empathy
7. Learning Communication Skills
8. Learning Motivation and Planning Skills
9. Learning Problem Solving Skills
10. Learning Anger Control Skills
11. Learning Relationship Management Skills
12. Learning the Concept of Persistence and Impulse Control Skills
13. Learning Healthy Decision Making Skills
14. Learning Concepts of Reconciliation

TURK101 TURKISH LANGUAGE I

1. Learn the necessity of the connection between language and culture.
2. Have information about the historical course of the Turkish language.
3. Learn the rules of spelling and punctuation, the need and contribution to life success.
4. Learn the use of words in the most appropriate place in oral and written expression.
5. Learn to use their ideas and feelings correctly and effectively.

INGU101 ENGLISH

1. Meet, verb, subject pronouns
2. Sign pronouns, countable / uncountable nouns, quantitative expressions
3. Wide time (Simple present tense), frequency envelopes
4. object pronouns, ownership adjectives, have got / has got
5. should, should, (must / mustn t) can, can (can / can t)
6. Past tense (Simple Past Tense)
7. Understands and comments on listening at the relevant level.
8. Increases vocabulary with various reading texts.

9. The present time
10. Conjunctions (and-but-so-because)
11. Comparisons
12. Gains the ability to understand various English reading passages at the middle level.

ATA101 ATATÜRK PRINCIPLES AND REVOLUTION HISTORY I

1. Defines concepts, lesson methods and definition of resources
2. Industrial Revolution and French Revolution
3. The Disintegration of the Ottoman State (XIX. Century)
4. Tanzimat and Reform Edict, I. and II. Constitutionalism
5. World I, Tripoli and Balkan Wars
6. Mondros Armistice Treaty, Wilson Principles, Paris Conference
7. The Exit of M. Kemal to Samsun and the Situation in Anatolia
8. Amasya Circular, National Congresses, Opening of the Mebusan Assembly
9. Establishment of the Turkish Grand National Assembly and Internal Revolts
10. Organization Law, Establishment of Regular Army
11. I. - II. Great Attack with İnönü, Kütahya-Eskişehir and Sakarya Square Battles
- Treaties during the 12th War of Independence
13. Lausanne Peace Treaty
14. Abolition of the Sultanate

RKUL101 UNIVERSITY CULTURE I (ÜZSEÇ)

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

1. CLASS SPRING SEMESTER

USE AND MAINTENANCE OF DYL116 DIALYSIS EQUIPMENT (BZSEÇ) THEORY 2 APPLICATION 2 CREDITS 3 ECTS 6

1. Dialysis machine recognition
2. Key features of the dialysis machine
3. Dialysis machine set
4. Membrane placement
5. The necessary connections of the dialysis machine
6. Dialysis machine disinfection systems
7. Na and UF profiles

DYL118 DIALYSIS I THEORY 2 APPLICATION 2 CREDITS 3 ECTS 6

1. Lesson Curriculum Sharing, Explaining the Duties, Powers and Responsibilities of Dialysis Technicians and Sharing the Implementation Directive
2. Kidney Health
3. Kidneys and Dialysis
4. Liquid-Electrolyte and Acid-Base Balance / Imbalance
5. Introduction to Acute-Chronic Kidney Failure
6. Overview and Physiological Principles of Renal Replacement Therapies
7. Hepatitis and AIDS in Dialysis Patients
8. The Role of Anticoagulation in Dialysis Treatment
9. The Concept of Dry Weight
10. Vascular Access Ways

DYL102 NEPHROLOGY THEORY 3 APPLICATION 0 CREDITS 3 ECTS 5

1. Anatomy and physiology of the kidneys - the role of the kidney in a healthy body
2. Methods of evaluation of kidney functions and their usage in daily life
3. How to evaluate the kidneys and in which situations the kidney patient will come across
4. Definition, causes, diagnosis, pathophysiology and prevention of acute renal failure (ARF)
5. Development of glomerular diseases, clinic, diagnosis and treatment approach
6. Chronic kidney failure (CKD) definition, causes, diagnostic methods, complications, treatment and preventive approach strategy
7. Patient communication, anamnesis and physical examination features for solving nephrological problems
8. How urine can evaluate normal compositions and abnormalities
9. Body acid-base balance and fluid-electrolyte levels
10. The link between blood potassium level and kidney diseases
11. Cardiovascular problems and infectious diseases in CKD
12. Hematological neurological and other system abnormalities in CKD
13. Renal replacement therapies
14. Kidney transplant and dialysis

BIK101 BIOCHEMISTRY THEORY 2 APPLICATION 0 CREDITS 2 ECTS 2

1. Definition and Interest of Biochemistry
2. Cell and Biochemical Organization
3. Cell and Biochemical Organization
4. Water, Acid Base Concept and Buffer Systems
5. Water, Acid Base Concept and Buffer Systems
6. Water, Acid Base Concept and Buffer Systems

7. Protein and Amino Acids
8. Protein and Amino Acids
9. Nucleic Acids and Components
10. Carbohydrates
11. Lipids
12. Lipids
13. Enzymes
14. Vitamins and Coenzymes

TURK102 TURKISH LANGUAGE II

1. To gain the skill of using mother tongue correctly; In the course where students who have come to the university by acquiring this skill are also essential to produce their thoughts and write their thoughts in order to develop their skills in this field, punctuation marks, spelling rules, composition rules, writing types are discussed with examples and writing studies are carried out.
2. In addition, various novels, poetry books and theater works are read and examined. By making a reading theater in the classroom, applied emphasis and intonation lessons are performed with various diction techniques.

INGU102 ENGLISH II

1. Tenses: Present tense, Wide tense, Past tens
2. Future structures; Modes: Might, Could, Can, Must, Ma
3. Envelopes: Location, Direction, Purpose, State envelope
4. Adjectives: Order of adjectives, Comparison, Structures that show superiorit
5. Passive Structure: Present, Wide, Past, Passive structure in the futur
6. Clause Clauses, Adjective Clauses, Transfer Clause
7. Verb Structures: TO, -IN
8. Noun Clauses, Envelope Clauses
9. Comparative Structures

RKUL 102 UNIVERSITY CULTURE II (ÜZSEÇ)

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

2. CLASS FALL SEMESTER

DYL207 INTERNAL AND SURGICAL DISEASES KNOWLEDGE THEORY 2 APPLICATION 0 CREDITS 2 ECTS 5

1. Basic Health and Disease Concepts
2. General Introduction to Human Body Systems
3. Respiratory System Diseases
4. Digestive System Diseases
5. Nervous System Diseases
6. Circulatory System Diseases
7. Circulatory System Diseases
8. Urinary System Diseases
9. Endocrine System Diseases
10. Blood Diseases
11. Joint Diseases
12. Skin Diseases

DYL209 DIALYSIS II THEORY 2 APPLICATION 16 CREDITS 10 ECTS 15

1. Acute-Chronic Kidney Failure
2. General Renal Replacement Therapies and the Place of Dialysis
3. Education of the Patient and Family
4. Definition of Hemodialysis Process
5. Devices Used in Hemodialysis Process
6. Water Systems in Hemodialysis
7. Vascular Access Ways in Hemodialysis Application
8. Acute Complications in Hemodialysis-1
9. Acute Complications in Hemodialysis-2
10. Chronic Complications in Hemodialysis-1
11. Chronic Complications in Hemodialysis-2
12. Identification of Peritoneal Dialysis Process
13. Acute Complications in Peritoneal Dialysis

ILK101 FIRST AID (BZSEÇ) THEORY 2 APPLICATION 0 CREDITS 2 ECTS 3

1. The basic principles of first aid
2. The human body
3. Assessment of patient / injured and crime scene
4. Basic life support
5. First aid in respiratory obstruction
6. First aid in bleeding, shock, injuries
7. First aid in burn, freezing and heat stroke
8. First aid in consciousness disorders
9. First aid in poisoning
10. First aid in animal bites
11. First aid for eye, ear, nose and foreign body escape
12. First aid in drowning u
13. First aid in fractures, dislocations and sprains
14. Transport techniques of patients and injured

SAH101 HEALTH LAW (BZSEÇ) THEORY 2 APPLICATION 0 CREDITS 2 ECTS 3

1. Introduction to Health Law
2. Basic Concepts and Institutions of Health Law
3. Patient Rights and Concepts
4. Physician Rights and Concepts
5. Privacy in Medical Interventions
6. Lighting And Consent
7. Illegality of Medical Intervention
8. Interventions Without Medical Indications
9. Relationships Between Hospitals and Patients and Its Legal Nature
10. Legal Nature of the Relationship Between Private Hospitals and Patients
11. Legal Nature of the Relationship Between Public Hospitals and Patients
12. Incorrect Medical Practices And Compensation Problems

MET101 PROFESSIONAL ETHICS (BZSEÇ) THEORY 2 APPLICATION 0 CREDITS 2 ECTS 3

1. What is Ethics? / A View of Ethical Theories / Basic Concepts: Responsibility, Accountability and Liability / Ethical Analysis
2. Society and Information Ethics: Two-Way Relationship Between Society and Technology Effects of Information Technologies; Optimist, Pessimist, Contextual Views Why IT Ethics? The Task of IT Ethics

3. Addiction, Health Problems, Unemployment, Social Relations
4. Security, Abuse and Cybercrime
5. Human and Patient rights
6. Hospital ethics committees
7. Principles of medical professional ethics and deontology
8. Principles of medical professional ethics and deontology- presentation
9. Ethical case analysis - student presentation
10. Bioethics
11. Ethical problems and ethical decision making process, medical ethical dilemmas
12. Ethical behavior principles
13. Privacy
14. Case discussion

2. CLASS SPRING SEMESTER

DYL206 REHABILITATION THEORY IN DIALYSIS PATIENTS 2 APPLICATION 0 CREDITS 2 ECTS 5

1. Health, illness, chronic disease concepts
2. Basic concepts of mental health and basic mental health problems
3. Situational crises, Traumatic Life Experiences and disease relationship
4. Spiritual reactions to physical health problems and adaptation process-
5. The mental effects of chronic diseases on the patient and family
6. Mental problems and diseases in dialysis patients
7. Psychosocial approaches to dialysis patients and their families
8. Psychosocial aspects of organ donation and psychological effects
9. Psychosocial aspects of organ transplantation and its psychological effects
10. Psychosocial care
11. Case study

DYL210 DIALYSIS III THEORY 0 APPLICATION 16 CREDITS 8 ECTS 15

It covers the 14-week application period in which students can reinforce the theoretical knowledge they have learned and the courses continue, provided that they are 16 hours per week.

DYL999 SUMMER INTERNSHIP THEORY 0 APPLICATION 20 WORKING DAYS CREDIT 0 ECTS 19

It covers 20 working days for students to realize their professional practices.

BES 101 NUTRITIONAL PRINCIPLES THEORY 2 APPLICATION 0 CREDITS 2 ECTS 3

1. Introduction to Nutrition
2. Community Nutrition Problems and Causes
3. Nutrients – Carbohydrates
4. Nutrients – Proteins
5. Nutrients – Fats
6. Nutrients – Vitamins
7. Nutrients – Minerals
8. Food Groups
9. Functional Foods
10. Methods of Cooking and Storing Foods
11. Energy Requirement and Energy Imbalance Problems
12. Nutrition in Special Cases