

**VOCATIONAL SCHOOL OF HEALTH SERVICES
PROGRAM OF AUDIOMETRY
2020-2021**

1st GRADE-FALL SEMESTER

MYO101 BASIC ANATOMY AND PHYSIOLOGY

(3+0), Credits: 3, ECTS:4

Introduction to Anatomy and Physiology, Cell Theory, Cell Organelles, Matter Exchange, Cell Metabolism, Locomotor System Anatomy and Bone, Joint and Muscle Physiology, Respiratory System Anatomy and Physiology, Circulatory System Anatomy and Physiology, Digestive System, Urinary System, Genital System, Endocrine System, Nervous System, Sense Organs Anatomy and Physiology.

BIK101 BIOCHEMISTRY

(2+0), Credits: 2, ECTS:2

Cell, Amino Acids, Peptides, Proteins, Enzymes, Nucleic Acids, Carbohydrates, Lipids and Membranes, Fats, Vitamins.

ENF118 BIOPHYSICS

(2+0), Credits: 2, ECTS:2

Introduction to Biophysics, Bioenergetics, ATP and Metabolism, Membrane Transport Mechanisms, Action Potential, Biophysical Properties of Body Fluids, Hearing Biophysics, Functions and Electrical Activity of the Brain, Effects of Electric Currents on Tissue.

ODT103 SOUND PHYSICS (AE)

(2+0), Credits: 2, ECTS:3

Principles of Sound Physics, Physical Relationships From Voice Formation to Speech Formation, Factors Affecting Sound, Acoustic Structure of Silent Cabins Used in Audiometric Examinations, Acoustic Structure and Phonetics of Speech.

SAH101 HEALTH LAW (AE)

(2+0), Credits: 2, ECTS:3

Basic Concepts of Health Law, Patient Rights, Doctor Rights, Privacy in Medical Intervention, Medical Intervention, Illegal Medical Intervention, Legal Aspects of Patient and Hospital Relations, The Concept of Medical Error and Its Legal Dimension.

RKUL101 UNIVERSITY CULTURE I (UE)

(0+2), Credit: 1, ECTS:1

Academic Units at the University, Seminar to be Held for 14 Weeks within the Framework of a Program Consisting of Student Council and Student Clubs, Conference, Panel, Workshops and Interviews.

TURK101 TURKISH LANGUAGE I

(2+0), Credits: 2, ECTS:3

Theories of Language and the Birth of Language, Language-Culture-Nation Relationship, Turkish Language Institution and Studies, Language Families and the Place of Turkish Among World Languages, Sound Features, Format Properties, Sentence Properties, Spelling Rules and Punctuation Marks, Expression Disorders, Sample Texts (Resume, Petition, Letter, Business Letter, Telegram)

INGU101 ENGLISH I

(3+0), Credits: 3, ECTS:3

Pronouns, Adverbs, Countable and Uncountable Nouns, Tense Structures, Adjectives, Auxiliary Verbs, Conjunctions, Comparative Structures.

ATA101 PRINCIPLES OF ATATURK AND HISTORY OF REVOLUTION I (2+0), Credits: 2, ECTS:3

Basic Concepts, Ottoman State and Its Periods, Industrial Revolution and the French Revolution, Tanzimat and Reform Edict, the First and the Second Constitutional Era, World War I and Agreements, Turkish War of Independence, Turkish Innovation Movements.

RPSI209 POSITIVE PSYCHOLOGY AND COMMUNICATION SKILLS (UE) (2+0), Credits: 2, ECTS:3

Definition of Positive Psychology and Basic Concepts, Theoretical Foundations and Applications of Positive Psychology, Examining the Brain-Behavior Systems of Emotional Experience and Behavior, Knowing Yourself and Others, Psychosocial Life and Problem Solving Skills, Motivation and Planning, Anger, Aggression, Violence, Relationship Management, Healthy Decision Making, Persistency and Agreeableness.

ILK101 FIRST AID (AE)

(2+0), Credits: 2, ECTS:3

General First Aid Information, Human Body, Patient/Injured and Incident Scene Evaluation, Basic Life Support, Respiratory Tract Obstructions, Hemorrhages and Shock, Injuries, Burns, Freezing, Heatstroke, Consciousness Disorders (Loss of Consciousness, Convulsion, Low Blood Sugar, Chest Pain), Poisoning, Animal Bites, Foreign Object Evasion of Eye-Ear-Nose, Asphyxiation, Fractures, Dislocations, Sprains, Carrying Techniques.

1st GRADE-SPRING SEMESTER

ODT110 HEARING AND ITS MEASUREMENT I

(2+2), Credits: 3, ECTS:5

Peripheral Hearing System Anatomy and Physiology, Outer Ear Structures and Physiology, Middle Ear Structures and Physiology, Inner Ear Structures and Physiology, Pure Tone Audiometry, Speech Audiometry, Introduction to Clinical Masking.

ODT102 HEARING LOSSES (AE)

(2+0), Credits: 2, ECTS:4

Hearing Loss, Types of Hearing Loss, Pathologies Causing Hearing Loss (Outer Ear Diseases, Middle Ear Diseases, Inner Ear Diseases, Cochlear/Retrocochlear Pathologies), Functional Hearing Loss.

ODT112 BASIC MEDICAL AND BIOLOGICAL SCIENCES

(3+0), Credits: 3, ECTS:4

Definition of Histology, Introducing Histological and Microscopic Methods, Cell and Structural Features of the Cell, Compatibility of the Cell with Macroscopic Structure, Cell Membrane and Cytoplasm, Cell Nucleus-Nucleolus and Organelles of the Cell, Cell Skeleton and Division, General Properties of Tissues and Tissue Types, Epithelial Tissue-General Features and Functions, Cover Epithelium and Secretory Epithelium, Blood-Making Tissues and Production of Blood Cells, Cartilage Tissue, Structure of Cartilage Tissue and Its Arrangement, The Role of Cartilage Tissue in Bone Development and Cartilage Types, Function and Histophysiology of Cartilage in Organism, Structure and Properties of Bone Tissue, Bone Tissue Cells, Bone Formation, Bone Repair, Histophysiology and Functions of Joints, Muscle Tissue, Structure and Properties of Muscle Tissue, Muscle Types and Morphological Differences in Organism, Skeletal Muscle, Cardiac Muscle, Smooth Muscle, Contraction Mechanism of Muscles, Nerve Tissue, Functions of Nerve Tissue, Structural Elements of

Nerve Tissue, Central and Peripheral Nervous System, Distribution of Structural Elements in the Central and Peripheral Nervous System, Nerve Endings.

RKUL102 UNIVERSITY CULTURE II (UE)

(0+2), Credit: 1, ECTS:1

Academic Units at the University, Seminar to be Held for 14 Weeks within the Framework of a Program Consisting of Student Council and Student Clubs, Conference, Panel, Workshops and Interviews.

TURK102 TURKISH LANGUAGE II

(2+0), Credits: 2, ECTS:3

Language Awareness and Using the Language Correctly, Reading Habit, Correct Use of Basic Writing and Punctuation Rules, Wider Vocabulary, Types of Writing.

INGU102 ENGLISH II

(3+0), Credits: 3, ECTS:3

Tenses, Pronouns, Reading and Vocabulary Exercises, Place and Time Prepositions, Possessive Suffixes, Adverbs, Suggestion and Request Clauses, Gerundials.

ATA102 PRINCIPLES OF ATATURK AND HISTORY OF REVOLUTION II (2+0), Credits: 2, ECTS:3

Events During the Emergence and Development of Modern Turkey, Ideas and Principles, Atatürk's Principles and Reforms, Turkish Foreign Policy in the Atatürk Period, Domestic Politics in Turkey.

ODT108 ENTRANCE OF MEDICAL BIOLOGY AND GENETICS

(2+0), Credits: 2, ECTS:3

The Role and Importance of Genetics and Molecular Biology in Medicine, Structure of Genetic Material-Proliferation and Protein Synthesis, Mutations in DNA, Repair Mechanisms of Mutations, Cytogenetics Used in Medical Genetics, Molecular Cytogenetics and Molecular Diagnostic Methods, Molecular Technologies, Commonly Encountered Single Gene Diseases, Inheritance Theory and Mendel's Genetics, Autosomal and Gonosomal Inheritance Patterns and Examples of Diseases Suitable for These Patterns, Cell Cycle-Proliferation and Control, Mitosis and Meiosis Division, Gender and Development, Basic Molecular Mechanisms of Cancer Development, Prenatal and Postnatal Diagnostic Methods, to Gain Knowledge and Skills to Explain the Ethical Dimension of Genetic Applications.

ODT109 PROFESSIONAL TECHNOLOGIES (AE)

(1+2), Credits: 2, ECTS:4

Basic Concepts, Audiometer and Transducer Types and Their Calibrations, Audiometric Zero and SLM (Sound Level Meter) Types, Electrophysiological Measurement Devices, Biological Calibration, Physical and Acoustic Properties of Silent Cabins with Hearing Measurement, Diapason Tests, Loudness Measurements.

2nd GRADE-FALL SEMESTER

ODT213 VESTIBULAR SYSTEM AND EVALUATION METHODS

(2+0), Credits: 2, ECTS:4

Peripheral and Central Vestibular System Anatomy and Physiology, Vestibular Reflexes, Vestibular Nuclei, Ocular Muscles ve Vestibuloocular Reflex (VOR) Association, Nystagmus and Its Types, Vestibular Anamnesis, Videonystagmography (VNG).

ODT233 HEARING AND ITS MEASUREMENTS II**(2+2), Credits: 3, ECTS:5**

Taking an Anamnesis in Pediatric and Adult Patients, Pure Tone and Speech Audiometry, Diapason Tests, Clinical Masking, Clinical Masking in Air Path Measurement, Clinical Masking in Bone Path Measurement, Clinical Masking in Speech Audiometry, Evaluation of Hearing in Pediatric Group, Patient Samples and Hard Cases.

ODT215 CLINICAL AUDIOMETRY I**(0+8), Credits: 4, ECTS:8**

Pure Tone and Speech Audiometry Applications, Correct Audiogram Writing, Clinical Masking Applications, Right Approches to Hard Cases, Writing an Audiogram Result, The Right Solution Approaches for Patients, Application of Immitansmetrical and Electrophysiological Test Methods in Relation to Audiogram, Field Applications.

ODT217 HEARING AID AND APPLICATION PRINCIPLES**(2+2), Credits: 3, ECTS:5**

History of the Hearing Aids, SUT and Hearing Aid Endications , Hearing Aid Types, Choosing Appropriate Aids for Hearing Loss, Ear Mold Taking Methods, Ear Mold and Acoustical Modifications, Assistive Listening Devices, CROS and BICROS Devices, Loudness Disturbance Level and Measurement, Digital Signal Processing, Tinnitus Mapping and Masking Rehabilitation with Hearing Aid.

ADS211 SIGN LANGUAGE I (AE)**(0+2), Credit: 1, ECTS:3**

Description of Turkish Sign Language, Hand and Finger Shapes, Single and Double Hand Use, Signification of Signs, Hand-Body Harmony, Face Expression-Message Harmony, Sign Language and Lip Movements, Greetings, Communication with Hearing Impaired Individuals, Expressing Emotions and Thoughts, Asking Questions.

ODY221 ELECTROPHYSIOLOGICAL TEST METHODS**(2+2), Credits: 3, ECTS:5**

Immitansmetrical Measurements, OAE, Early-Middle and Late Latency Responses, ASSR.

2nd GRADE-SPRING SEMESTER**HLK101 PUBLIC HEALTH (AE)****(2+0), Credits: 2, ECTS:3**

Basic Concepts in Public Health, Basic Health Services, Health Organization in Turkey, Transformation Project in Health, Maternal-Child Health, Family Planning, Work and Worker Health, Health of Elderly Population, Social and Infectious Diseases, Prevention and Control of Infectious Diseases, Health Education, Developing Health and Healthy Life, Community Mental Health, Adequate and Balanced Nutrition, Environmental Health.

ODT202 CLINICAL AUDIOMETRY II**(0+8), Credits: 4, ECTS: 8**

Pure Tone and Speech Audiometry Applications and Encountered Difficulties, Audiogram Reading and Correct Audiogram Writing, Clinical Masking Applications, Encountered Difficulties in Masking, Solution Approches and Application in Rarely Encountered Pathologies, Right Approches to Hard Cases, Correct Audiogram Writing, Communication with Patient, The Applications for Right Solution Approches, Coordinated Use of Audiological Test Batteries, Understanding the Relationship of Results Obtained from Diagnostic Tests, Collaborations and Expectations with ENT Doctors and Audiologists, Field Applications.

ODT999 SUMMER INTERNSHIP**(0+20 Working days), Credit: 0, ECTS:9**

Students' Practice Theoretically Learned Knowledge, Internship Applications.

MET101 PROFESSIONAL ETHICS**(2+0), Credits: 2, ECTS:2**

Basic Concepts About Ethics, System of Values and Morality Rules, Human and Patient Rights, Virtues That Healthcare Professional/Audiometry Technician Should Have, Professional Ethics Principles.

ODT212 AUDIOLOGICAL EVALUATION WITH CASES**(2+0), Credits: 2, ECTS:3**

Cases with Audiological Symptoms, Clinical Protocols for Adult Patients, Clinical Protocols for Pediatric Patients.

ODT214 HEARING SCREENINGS**(2+0), Credits: 2, ECTS:2**

Aim of the Hearing Screenings, History of the Hearing Screenings, Protocols of the Hearing Screenings, Diagnostical Values of the Hearing Screenings, Importance and Effect of Screenings, Screening Applications.

ADS212 SIGN LANGUAGE II (AE)**(0+2), Credit: 1, ECTS:3**

Hand and Finger Shapes, Positions of Hands by Body, Function of Mimics, Single and Double Hand Use, Signification of Signs, Hand-Body Harmony, Face Expression-Message Harmony, Sign Language and Lip Movements, Greetings, Communication with Hearing Impaired Individuals, Expressing Emotions and Thoughts, Asking Questions, Formation of Sentence and Story, Exercises, Musical Studies with Sign Language.