

VOCATIONAL SCHOOL OF HEALTHCARE SERVICES – KTO KARATAY UNIVERSITY



**KTO KARATAY**  
**ÜNİVERSİTESİ**

**KTO KARATAY UNIVERSITY VOCATIONAL SCHOOL OF HEALTHCARE SERVICES**

**ERASMUS+ Course Catalogue**

**for the academic year 2019/2020 Spring Semester**

KONYA, 2019-2020

**(ALPHABETICAL) LIST OF COURSES WITH CODES**

ODY109	Introduction to Audiology
ODY119	General Anatomy
ODY129	General Physiology
ODY151	Medical Biology and Genetics
ODY118	Auditory Perception Processes of Language and Speech
ODY128	Basic Otorhinolaryngology
ODY138	Audiological Evaluation Methods-I
ODY122	Medical Biochemistry
ODY219	Vestibular Evaluation Methods
ODY229	Pediatric Audiology
ODY239	Audiological Assessment Methods-II
ODY249	Instrumentation and Calibration
ODY259	Hearing and Vestibular System Diseases
ODY241	Microbiology
ODY218	Advanced Electrophysiological Test Methods
ODY228	Basic Principles of Rehabilitation
ODY238	Introduction to Amplification Applications
ODY248	Language and Speech Science
ODY258	Clinical Skills Development
ODY252	Histology

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ODY319	Audiological and Vestibular Interpretation and Diagnosis
ODY329	Central Auditory Processing Disorders
ODY339	Hearing Aid Selection and Application Principles
ODY349	Vestibular Rehabilitation
ODY318	Auditory (Re)Habilitation Practices
ODY328	Cochlear implant selection and application principles
ODY338	Special Topics in Audiology
ODY348	Summer Internship

**Course Name General Anatomy Course Code ODY119**

FACULTY: Health Sciences (Audiology)	CLASS TYPE: Compulsory
NUMBER OF HOURS: 3/week	ECTS TYPE: 4
SEMESTER:1	CLASS LEVEL: Bachelor's Degree
LANGUAGE OF INSTRUCTION: Turkish	
PRELIMINARY REQUIREMENTS: NONE	
<b>CONTENTS:</b> General anatomy knowledge Skeletal system Anatomy of Ear Anatomy of Larynx Oral region anatomy Nasal region anatomy Respiratory system anatomy Nervous system anatomy (telencephalon and diencephalon) Nervous system (cerebellum, metencephalon, pons, medulla oblongata) Nervous system (medulla spinalis ve peripheral nervous system) Nervous system (Cranial Nerves)	
<b>EFFECTS OF EDUCATION PROCESS:</b> Defines outer, middle and inner ear structures. Defines the anatomy of the vestibular system structures. Defines the anatomical structures of the larynx area. Defines the anatomical structures forming the oral and nasal cavities.	

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Defines the important anatomical structures that constitute the respiratory system for speech.  
Analyzes the anatomy of cerebrum, cerebellum, brain stem, and medulla spinalis, defines central and peripheral nervous system  
Defines brain lobes and centers (understanding speech, hearing, tasting, sight, reading-writing, , motor and sensory functions) in lobes.

LITERATURE (OPTIONAL):

TEACHING METHODS: Lecture,Discussion,Question and Answer,Demonstration

ASSESSMENT METHODS:

Mid-terms %40

Final examination %60

LECTURER (NAME, EMAIL CONTACT): Asist Prof. Özlem AKKOYUN SERT, ozlem.sert@karatay.edu.tr

**Course Name Introduction to Audiology Course Code ODY109**

FACULTY: Health Sciences (Audiology)	CLASS TYPE: Compulsory
NUMBER OF HOURS: 3/week	ECTS TYPE: 4
SEMESTER:1	CLASS LEVEL: Bachelor's Degree
LANGUAGE OF INSTRUCTION: Turkish	
PRELIMINARY REQUIREMENTS: NONE	
<p><b>CONTENTS:</b> Hearing system is generally referred to. Description of dB, SPL, HL, SL abbreviations specific to audiology and definition of these concepts are made. Equipment used in hearing assessment are introduced to students. Types of headphones, stimulus methods, concepts in the audiogram are briefly mentioned. Introduction to Hearing Examination: Ear examination, airway and bone pathway hearing thresholds concepts, diapason tests are explained Audiometric Analysis Methods: Information about pure sound audiometry is given. How to measure and use the instrument with the audiometry device is explained. The concept of masking is explained, its definition is made, and when necessary it is mentioned. In audiometric measurement, basic principles of masking for airway and bone are explained and applied. Speech audiometry: Technique of audiometric measurement using human voice and basic principles of the test are explained. SRT, SDS, UCL, MCL concepts are explained. Application methods are explained. The subjects learned are repeated and brought into a whole. Pure sound audiometry results and speech test results over the audiogram are compared to the mask needs and thresholds. Impedance audiometry: Acoustic impedance measurements and impedance audiometry specific physical concepts and definitions are explained. The use of the device and the tests that can be done are mentioned. The fields evaluated by tympanometric measurements, the purpose of the test and the equipment used are explained. The</p>	

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<p>application of the test is mentioned. Types of tympanograms specific to hearing loss are explained. The definition and formation principles of Stapes reflex are mentioned. In clinical practice, the importance and location of the stapes reflex is explained. Generally, the reflex arc is mentioned. Application results and interpretation of impedance audiometry in conduction, sensorineural and mixed types of hearing loss are explained. Tympanogram obtained from different types of hearing loss, acoustic reflex is explained and examples are shown. Interpretation of the findings is explained. The principles of pure sound audiometric measurement, principles of masking, audiometric configuration, speech audiometry, tympanometric measurement and interpretation principles, acoustic reflex tests are repeated. The comparison and interpretation of all data through the audiogram. The subject is reinforced with different sample audiograms.</p>
<p><b>EFFECTS OF EDUCATION PROCESS:</b> Learns the history of audiology from past to present, follow its development and have a general knowledge about the current usage areas. Learns basic information about measurement and evaluation of hearing. Gains knowledge of methods used to measure and evaluate hearing. Learns the general information about protection, prevention, treatment and rehabilitation of hearing health. Have knowledge about audiometric configuration and hearing.</p>
<p><b>LITERATURE (OPTIONAL):</b></p>
<p><b>TEACHING METHODS:</b> Lecture,Discussion,Question and Answer,Demonstration</p>
<p><b>ASSESSMENT METHODS:</b> Mid-terms %40 Final examination %60</p>
<p><b>LECTURER (NAME, EMAIL CONTACT):</b> Asist Prof. Burak ÖZTÜRK, burak.ozturk@karatay.edu.tr</p>

**Course Name General Physiology Course Code ODY129**

FACULTY: Health Sciences (Audiology)	CLASS TYPE: Compulsory
NUMBER OF HOURS: 3/week	ECTS TYPE: 4
SEMESTER:1	CLASS LEVEL: Bachelor's Degree
LANGUAGE OF INSTRUCTION: Turkish	
PRELIMINARY REQUIREMENTS: NONE	
<b>CONTENTS:</b> General Physiology knowledge Terminology Musculature Peripheral hearing physiology (auris externa and auris media) Physiology of phonation Respiration physiology Articulation physiology Neurophysiology (telencephalon and diencephalon) Neurophysiology (cerebellum, metencephalon, pons, medulla oblongata) Neurophysiology (medulla spinalis and peripheral nervous system) Neurophysiology (cranial nerves)	
<b>EFFECTS OF EDUCATION PROCESS:</b> Defines outer, middle and inner ear structures. Defines the anatomy of the vestibular system structures. Defines the anatomical structures of the larynx area. Defines the anatomical structures forming the oral and nasal cavities. Defines the important anatomical structures that constitute the respiratory system for speech.	



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Analyzes the anatomy of cerebrum, cerebellum, brain stem, and medulla spinalis, defines central and peripheral nervous system  
Defines brain lobes and centers (understanding speech, hearing, tasting, sight, reading-writing, , motor and sensory functions) in lobes.

Classifies and analyzes brain membranes, ventricles, dural sinuses, and veins that supply the brain..

Lists the arteries and veins of the nervous system, head nerves and spinal nerves, interrogates and memorizes them.

LITERATURE (OPTIONAL):

TEACHING METHODS: Lecture,Discussion,Question and Answer,Demonstration

ASSESSMENT METHODS:

Mid-terms %40

Final examination %60

LECTURER (NAME, EMAIL CONTACT): Asist Prof. Mustafa Savaş TORLAK, mustafa.savas.torlak@karatay.edu.tr

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**Course Name Medical Biology and Genetics Course Code ODY151**

FACULTY: Health Sciences (Audiology)	CLASS TYPE: Compulsory
NUMBER OF HOURS: 2/week	ECTS TYPE: 2
SEMESTER:1	CLASS LEVEL: Bachelor's Degree
LANGUAGE OF INSTRUCTION: Turkish	
PRELIMINARY REQUIREMENTS: NONE	
<b>CONTENTS:</b> Live And Live Science Cell, Cell Organelles, Cell Skeleton Transport and Warning Transmission in Cell Membrane Cellular Energy And Metabolism Cell Cycle And Cleavage Reproduction and Development Biology Structure and Genesis of Genetic Materials Protein Synthesis Mendel Genetics Cancer And Apoptosis Hereditary Diseases Population Genetics Human Genome Project	
<b>EFFECTS OF EDUCATION PROCESS:</b> Will be able to summarize the structures that create vitality and vitality. Explain the construction stages of important biological and cellular molecules Will be able to express the current biological issues	

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Will be able to make connections about genetic factors and diseases.
LITERATURE (OPTIONAL):
TEACHING METHODS: Lecture,Discussion,Question and Answer,Demonstration
ASSESSMENT METHODS: Mid-terms %40 Final examination %60
LECTURER (NAME, EMAIL CONTACT): Prof. Dr. Birol ÖZKALP, birol.ozkalp@karatay.edu.tr

**Course Name Auditory Perception Processes of Language and Speech Course Code ODY118**

FACULTY: Health Sciences (Audiology)	CLASS TYPE: Compulsory
NUMBER OF HOURS: 2/week	ECTS TYPE: 3
SEMESTER:1	CLASS LEVEL: Bachelor's Degree
LANGUAGE OF INSTRUCTION: Turkish	
PRELIMINARY REQUIREMENTS: NONE	
<b>CONTENTS:</b> Memory types and processes Sensation and perception Neuroanatomy and physiology of perception Factors affecting perception and perception Perception of perception in infancy Auditory perception Theories of auditory perception Development of auditory perception in infancy The relationship between the degree of hearing loss and the development of auditory perception skills Evaluation of auditory perception Evaluation of auditory perception Rehabilitation of auditory perception and its applications Rehabilitation of auditory perception and its applications	
<b>EFFECTS OF EDUCATION PROCESS:</b> To know the meaning of auditory perception To know the stages of auditory perception Determination of auditory perception development processes in pediatric group	

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Evaluation of auditory perception

LITERATURE (OPTIONAL):

TEACHING METHODS: Lecture,Discussion,Question and Answer,Demonstration

ASSESSMENT METHODS:

Mid-terms %40

Final examination %60

LECTURER (NAME, EMAIL CONTACT): Asist Prof. Burak ÖZTÜRK, burak.ozturk@karatay.edu.tr

**Course Name Medical Biochemistry Course Code ODY122**

FACULTY: Health Sciences (Audiology)	CLASS TYPE: Compulsory
NUMBER OF HOURS: 2/week	ECTS TYPE: 2
SEMESTER:1	CLASS LEVEL: Bachelor's Degree
LANGUAGE OF INSTRUCTION: Turkish	
PRELIMINARY REQUIREMENTS: NONE	
<b>CONTENTS:</b> Introduction to biochemistry Water and electrolyte metabolism Proteins, amino acids enzymes carbohydrates lipids Nucleic acids and protein synthesis Hormones Steroid hormones Carbohydrate, Lipid, Protein metabolism Biochemistry of digestion and absorption Vitamin and mineral biochemistry Liver and kidney function tests Test selection, sampling methods	
<b>EFFECTS OF EDUCATION PROCESS:</b> Explain the mechanism and mechanism of biochemical reactions Have knowledge about the functions and formation of biomolecules	

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Defines the diseases that develop in the lack of biomolecules

Have information about the basic structure and metabolism of carbohydrates, fats and proteins

LITERATURE (OPTIONAL):

TEACHING METHODS: Lecture, Discussion, Question and Answer, Demonstration

ASSESSMENT METHODS:

Mid-terms %40

Final examination %60

LECTURER (NAME, EMAIL CONTACT): Asist Prof. Kamile YÜCEL, kamile.yucel@karatay.edu.tr

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**Course Name Basic Otorhinolaryngology Course Code ODY128**

FACULTY: Health Sciences (Audiology)	CLASS TYPE: Compulsory
NUMBER OF HOURS: 2/week	ECTS TYPE: 3
SEMESTER:1	CLASS LEVEL: Bachelor's Degree
LANGUAGE OF INSTRUCTION: Turkish	
PRELIMINARY REQUIREMENTS: NONE	
CONTENTS: Ear evaluation methods External auditory canal diseases and treatment Middle ear diseases and treatment Diseases and treatment of sensorineural hearing loss Neural hearing loss diseases and treatment Diseases causing congenital hearing loss and its treatment Diseases that cause age-related hearing loss and treatment	
EFFECTS OF EDUCATION PROCESS: He / She knows ear examination methods, ear diseases and ear diseases which cause hearing loss. He uses ear examination methods in hearing indication, information about ear diseases and ear diseases that cause hearing loss. Gains detailed knowledge and skills about protection, prevention, treatment and rehabilitation of ear and hearing health. Gains the ability to follow the scientific studies on protection, prevention, treatment and rehabilitation of ear and hearing health.	
LITERATURE (OPTIONAL):	
TEACHING METHODS: Lecture,Discussion,Question and Answer,Demonstration	



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**ASSESSMENT METHODS:**

Mid-terms %40

Final examination %60

**LECTURER (NAME, EMAIL CONTACT):** Asist Prof. Bahri GEZGİN, bahri.gezgin@karatay.edu.tr

**Course Name Audiological Assessment Methods-I Course Code ODY138**

FACULTY: Health Sciences (Audiology)	CLASS TYPE: Compulsory
NUMBER OF HOURS: 4/week	ECTS TYPE: 5
SEMESTER:1	CLASS LEVEL: Bachelor's Degree
LANGUAGE OF INSTRUCTION: Turkish	
PRELIMINARY REQUIREMENTS: NONE	
<b>CONTENTS:</b> Overview of auditory brainstem responses Auditory brainstem responses: Stimulus parameters Auditory brainstem responses: Recording parameters Auditory brainstem responses: Non-pathological factors related to the individual Auditory brainstem responses: Pathological factors related to the individual Auditory brainstem responses: test procedures Auditory brainstem responses: Analysis methods and clinical interpretation Factors affecting ASSR responses Analysis and clinical interpretation of ASSR responses Factors affecting OAE responses Analysis and clinical interpretation of OAE responses	
<b>EFFECTS OF EDUCATION PROCESS:</b> Know and apply auditory diagnostic test methods Knows the importance of auditory diagnosis. Uses necessary. Uses and interprets objective test methods in diagnostics Uses and interprets subjective test methods in diagnosis. Accurately regulates the audiological test battery and diagnoses it with the Cross-Check method.	

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Know and apply auditory diagnostic test methods  
Knows the importance of auditory diagnosis. Uses necessary.

LITERATURE (OPTIONAL):

TEACHING METHODS: Lecture, Discussion, Question and Answer, Demonstration

ASSESSMENT METHODS:

Mid-terms %40

Final examination %60

LECTURER (NAME, EMAIL CONTACT): Asist Prof. Burak ÖZTÜRK, burak.ozturk@karatay.edu.tr

**Vestibular Evaluation Methods Course Code ODY 219**

FACULTY: School of Health Science (Audiology)	CLASS TYPE: Compulsory
NUMBER OF HOURS: 4/week	ECTS TYPE: 4
SEMESTER: 1	CLASS LEVEL: Bachelor's Degree
LANGUAGE OF INSTRUCTION: Turkish	
PRELIMINARY REQUIREMENTS: NONE	
<p>CONTENTS:</p> <p>Vestibular system and components</p> <p>Anatomy of the vestibular system</p> <p>Physiology of the vestibular system</p> <p>Eye movements and recording techniques</p> <p>Dizziness / dizzy patient clinical evaluation</p> <p>V / ENG-tests</p> <p>Midterm</p> <p>Evaluation of midterm exam</p> <p>V / ENG-tests</p> <p>VEMP</p> <p>V-HIT</p> <p>Posturography-overview</p> <p>Posturography-test protocols</p> <p>General Application Review</p>	
<p>EFFECTS OF EDUCATION PROCESS:</p> <p>Understands the properties of the vestibular system. Distinguish the vestibular system disorders and the underlying causes</p>	

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Comprehend and apply general and pathology specific measurement and evaluation methods in vestibular problems  
Defines the clinical problems in the vestibular system and directs them to the related experts for solutions

LITERATURE (OPTIONAL):

TEACHING METHODS: Lecture,Discussion,Question and Answer,Demonstration

ASSESSMENT METHODS:

Mid-terms %40

Final examination %60

LECTURER (NAME, EMAIL CONTACT): Nedim Uğur KAYA nedim.ugur.kaya@karatay.edu.tr

**Pediatric Audiology Course Code ODY 229**

FACULTY: School of Health Science (Audiology)	CLASS TYPE: Compulsory
NUMBER OF HOURS: 3/week	ECTS TYPE: 4
SEMESTER: 1	CLASS LEVEL: Bachelor's Degree
LANGUAGE OF INSTRUCTION: Turkish	
PRELIMINARY REQUIREMENTS: NONE	
<p>CONTENTS: Early detection of hearing loss  Principles and methods of neonatal hearing screening  National hearing screening programs in our country  Audiological evaluation in children  Middle ear measurements  Electrophysiological evaluation  Midterm  Assessment of children with hearing loss multiple obstruction  Assessment of children with hearing loss multiple obstruction  Behavior audiometry in infants and children  CI evaluation  Attachment and rehabilitation of hearing-impaired children  Attachment and rehabilitation of hearing-impaired children  Attachment and rehabilitation of hearing-impaired children</p>	
<p>EFFECTS OF EDUCATION PROCESS: Learns about the early diagnosis of hearing loss.  Learn the principles and methods of newborn hearing screening.  Learns the national hearing screening programs in our country.  Learns audiological evaluation methods in children</p>	

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LITERATURE (OPTIONAL):

TEACHING METHODS: Lecture,Discussion,Question and Answer,Demonstration

ASSESSMENT METHODS:

Mid-terms %40

Final examination %60

LECTURER (NAME, EMAIL CONTACT): Nedim Uğur KAYA nedim.ugur.kaya@karatay.edu.tr

**Audiological Assessment Methods-II Course Code ODY 239**

FACULTY: School of Health Science (Audiology)	CLASS TYPE: Compulsory
NUMBER OF HOURS: 4/week	ECTS TYPE: 5
SEMESTER: 1	CLASS LEVEL: Bachelor's Degree
LANGUAGE OF INSTRUCTION: Turkish	
PRELIMINARY REQUIREMENTS: NONE	
<b>CONTENTS:</b> Overview of auditory brainstem responses Auditory brainstem responses: Stimulus parameters Auditory brainstem responses: Recording parameters Auditory brainstem responses: Non-pathological factors related to the individual Auditory brainstem responses: Pathological factors related to the individual Auditory brainstem responses: test procedures Auditory brainstem responses: Analysis methods and clinical interpretation Midterm Overview of ASSR responses Factors affecting ASSR responses Analysis and clinical interpretation of ASSR responses Overview of OAE responses Factors affecting OAE responses Analysis and clinical interpretation of OAE responses	
<b>EFFECTS OF EDUCATION PROCESS:</b> Know and apply auditory diagnostic test methods	



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Knows the importance of auditory diagnosis. Uses necessary.  
Uses and interprets objective test methods in diagnostics  
Uses and interprets subjective test methods in diagnosis.  
Accurately regulates the audiological test battery and diagnoses it with the Cross-Check method.

LITERATURE (OPTIONAL):

TEACHING METHODS: Lecture, Discussion, Question and Answer, Demonstration

ASSESSMENT METHODS:

Mid-terms %40

Final examination %60

LECTURER (NAME, EMAIL CONTACT): ): Asist. Prof. Burak ÖZTÜRK burak.ozturk@karatay.edu.tr

**Instrumentation and Calibration Course Code ODY 249**

FACULTY: School of Health Science (Audiology)	CLASS TYPE: Compulsory
NUMBER OF HOURS: 3/week	ECTS TYPE: 3
SEMESTER: 1	CLASS LEVEL: Bachelor's Degree
LANGUAGE OF INSTRUCTION: Turkish	
PRELIMINARY REQUIREMENTS: NONE	
<p>CONTENTS:</p> <p>Standards and principles used in audiological measurement</p> <p>Audiometers, technical features and basic working principles-Lab.</p> <p>Basic calibration and technical specifications</p> <p>Performance characteristics of the audiometers and basic calibration principles</p> <p>Acoustic immittances, technical features and basic working principles</p> <p>Performance characteristics of acoustic immittances and basic calibration principles</p> <p>Basic acoustical properties and standards of hearing test rooms</p> <p>Midterm</p> <p>Midterm examination</p> <p>Basic characteristics of the Otoacoustic Emission measuring instrument and working principle</p> <p>Basic working principles of Electrocongography and Electronograhgraphy</p> <p>Measurement of auditory brainstem response and basic working principles-Lab.</p> <p>Mid and late latency measurement and basic working principles</p> <p>Basic working principles of instruments used in vestibular evaluation</p>	
<p>EFFECTS OF EDUCATION PROCESS:</p> <p>Know the technical specifications of the audiometers</p> <p>Know the calibration standards of the audiometers.</p>	

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Learn calibration measurements

Learn the technical specifications and standards of the İmmitansmetrik measuring instruments

Know basic working principles of instruments to be used in objective measurement of audiology.

LITERATURE (OPTIONAL):

TEACHING METHODS: Lecture,Discussion,Question and Answer,Demonstration

ASSESSMENT METHODS:

Mid-terms %40

Final examination %60

LECTURER (NAME, EMAIL CONTACT): ): Nedim Uğur KAYA nedim.ugur.kaya@karatay.edu.tr

**Hearing and Vestibular System Diseases Course Code ODY 259**

FACULTY: School of Health Science (Audiology)	CLASS TYPE: Compulsory
NUMBER OF HOURS: 2/week	ECTS TYPE: 3
SEMESTER: 1	CLASS LEVEL: Bachelor's Degree
LANGUAGE OF INSTRUCTION: Turkish	
PRELIMINARY REQUIREMENTS: NONE	
<p>CONTENTS:</p> <p>Outer ear diseases and treatment I</p> <p>Middle ear diseases and treatment I</p> <p>Diseases causing sensorineural hearing loss and treatment I</p> <p>Diseases causing neural hearing loss and treatment I</p> <p>Diseases causing congenital hearing loss and treatment I</p> <p>Diseases causing age-related hearing loss and treatment</p> <p>Clinical diagnostic test procedures and protocols for vestibular system diseases II</p> <p>Midterm</p> <p>Evaluation of midterm exam</p> <p>Clinical evaluation methods and techniques of patients with vestibular problems I</p> <p>Clinical evaluation methods and techniques of patients with vestibular problems II</p> <p>Vestibular rehabilitation I</p> <p>Vestibular rehabilitation II</p> <p>Vestibular rehabilitation III</p> <p>General exam preparation</p> <p>General Examination</p>	

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### EFFECTS OF EDUCATION PROCESS:

Follows up-to-date studies on the evaluation, diagnosis and rehabilitation of vestibular system diseases of audiology and gains the ability to use them in professional and academic studies.

Improves the knowledge and skills acquired in the assessment, diagnosis and rehabilitation methods and techniques in the indication of vestibular system diseases.

Improves the ability of presenting in scientific environments by conducting research and project development studies for diagnosis and rehabilitation of vestibular system diseases.

Complies with ethical rules and values in the vestibular system evaluation and rehabilitation of audiology field.

Gains the ability to conduct independent studies related to the vestibular system.

Develops the ability to follow academic publications and developments in vestibular system diseases, evaluation, diagnosis and rehabilitation.

### LITERATURE (OPTIONAL):

TEACHING METHODS: Lecture, Discussion, Question and Answer, Demonstration

### ASSESSMENT METHODS:

Mid-terms %40

Final examination %60

LECTURER (NAME, EMAIL CONTACT): Asist Prof. Bahri GEZGIN bahri.gezgin@karatay.edu.tr

**Microbiology Course Code ODY241**

FACULTY: School of Health Science (Audiology)	CLASS TYPE: Compulsory
NUMBER OF HOURS: 4/week	ECTS TYPE: 5
SEMESTER: 1	CLASS LEVEL: Bachelor's Degree
LANGUAGE OF INSTRUCTION: Turkish	
PRELIMINARY REQUIREMENTS: NONE	
<p>CONTENTS:</p> <p>Microorganism morphology, Microorganism genetics  Transmission ways of microorganisms  Sterilization and disinfection methods  Immunological properties of microorganisms and host, Nonspecific and specific defense mechanisms of host  Hypersensitivity, Immunodeficiency, Cancer immunity and Vaccines  General principles in laboratories, Clinical microbiology laboratory methods  Preparation for midterm exam  Midterm  Important bacteria  Major bacterial infections  Important viruses  Important viral infections  Important fungal and parasitic infections  Nosocomial infections and what to do</p>	
<p>EFFECTS OF EDUCATION PROCESS:</p> <p>Define the terms genetics, genotype and phenotype, compare and compare RNA and DNA structure.  Describe the relationship between host defense systems and microorganisms. Discuss the immunological and defense systems of</p>	

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microorganisms and host

Knows important bacteria, viruses, fungi, parasites and infections they may cause

Have information about infections that may be encountered in hospital environment, take necessary precautions.

LITERATURE (OPTIONAL):

TEACHING METHODS: Lecture, Discussion, Question and Answer, Demonstration

ASSESSMENT METHODS:

Mid-terms %40

Final examination %60

LECTURER (NAME, EMAIL CONTACT): Prof. Birol ÖZKALP birol.ozkalp@karatay.edu.tr

**Advanced Electrophysiological Test Methods Course Code ODY 218**

FACULTY: School of Health Science (Audiology)	CLASS TYPE: Compulsory
NUMBER OF HOURS: 4/week	ECTS TYPE: 4
SEMESTER: 2	CLASS LEVEL: Bachelor's Degree
LANGUAGE OF INSTRUCTION: Turkish	
PRELIMINARY REQUIREMENTS: NONE	
<p>CONTENTS:</p> <p>Overview of auditory evoked responses</p> <p>Electrocochleography: Stimulus parameters</p> <p>Electrocochleography: Recording parameters</p> <p>Electrocochleography: Analysis methods and clinical interpretation</p> <p>Auditory medium latency responses: Stimulus parameters</p> <p>Auditory medium latency responses: Recording parameters</p> <p>Auditory middle latency responses: Analysis methods and clinical interpretation</p> <p>Midterm</p> <p>Auditory late latency responses: Stimulus parameters</p> <p>Auditory late latency responses: Recording parameters</p> <p>Auditory late latency responses: Analysis methods and clinical interpretation</p> <p>P300 and MMN: Stimulus parameters</p> <p>P300 and MMN: Recording parameters</p> <p>P300 and MMN: Methods of analysis and clinical interpretation</p> <p>General Exam Preparation</p> <p>General Examination</p>	



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**EFFECTS OF EDUCATION PROCESS:**

Knows and applies electrocochleography test methods  
Know and apply auditory middle latency test methods  
Know and apply auditory late latency test methods  
Knows and applies P300 and MMN test methods

**LITERATURE (OPTIONAL):**

**TEACHING METHODS:** Lecture, Discussion, Question and Answer, Demonstration

**ASSESSMENT METHODS:**

Mid-terms %40  
Final examination %60

**LECTURER (NAME, EMAIL CONTACT):** Asist. Prof. Burak ÖZTÜRK      burak.ozturk@karatay.edu.tr

**Basic Principles of Rehabilitation Course Code ODY 228**

FACULTY: School of Health Science (Audiology)	CLASS TYPE: Compulsory
NUMBER OF HOURS: 2/week	ECTS TYPE: 2
SEMESTER: 2	CLASS LEVEL: Bachelor's Degree
LANGUAGE OF INSTRUCTION: Turkish	
PRELIMINARY REQUIREMENTS: NONE	
<p>CONTENTS:</p> <p>Education, special education definition, principles, incidence</p> <p>Groups in need of special education</p> <p>Special education methods</p> <p>Diagnosis and evaluation in special education</p> <p>Evaluation principles</p> <p>Evaluation methods, scales and tests used,</p> <p>Midterm</p> <p>Evaluation of midterm exam</p> <p>Auditory rehabilitation</p> <p>Education methods in hearing impaired</p> <p>Education methods in hearing impaired</p> <p>Music education in the education of hearing impaired children</p> <p>Music education in the education of hearing impaired children</p> <p>An overview</p>	

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EFFECTS OF EDUCATION PROCESS: Learning the principles of rehabilitation
LITERATURE (OPTIONAL):
TEACHING METHODS: Practical
ASSESSMENT METHODS: Mid-terms %40 Final examination %60
LECTURER (NAME, EMAIL CONTACT): Asist Prof. İclal ŞAN iclal.san@karatay.edu.tr

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**Introduction to Amplification Applications Course Code ODY 238**

FACULTY: School of Health Science (Audiology)	CLASS TYPE: Compulsory
NUMBER OF HOURS: 4/week	ECTS TYPE: 4
SEMESTER: 2	CLASS LEVEL: Bachelor's Degree
LANGUAGE OF INSTRUCTION: Turkish	
PRELIMINARY REQUIREMENTS: NONE	
<p>CONTENTS:</p> <p>Hearing aids and history. What to look for when choosing a hearing aid. Requirements for hearing aid programming. Choosing the appropriate program for the hearing aid. Making device connections for hearing aid programming I Making device connections in hearing instrument programming II Learned topics are compared with previous and previous information. Midterm Midterm examination Hearing aid programming I Hearing aid programming. II Hearing aid programming. III Possible solutions of problems arising in hearing aid programming I Possible solutions of problems arising in hearing aid programming II</p>	
<p>EFFECTS OF EDUCATION PROCESS:</p> <p>They have information about the conditions that require the use of a hearing aid. Appropriate for hearing loss and type, the device will determine the maximum benefit for the patient.</p>	

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Learn how to make settings for the current hearing instrument, use and configure the features available on the device. It changes the device settings in the direction of the patient's complaints and brings possible solutions to the patient's comprehension problems.  
It follows the hearing aid and the technology in the area, learns new technologies and uses them in setting up.  
Make real ear measurements, compare the device gains in theory and practice, and arrange settings

LITERATURE (OPTIONAL):

TEACHING METHODS: Lecture, Discussion, Question and Answer, Demonstration

ASSESSMENT METHODS:

Mid-terms %40

Final examination %60

LECTURER (NAME, EMAIL CONTACT): Nedim Uğur KAYA nedim.ugur.kaya@karatay.edu.tr

**Language and Speech Science Course Code ODY 248**

FACULTY: School of Health Science (Audiology)	CLASS TYPE: Compulsory
NUMBER OF HOURS: 2/week	ECTS TYPE: 3
SEMESTER: 2	CLASS LEVEL: Bachelor's Degree
LANGUAGE OF INSTRUCTION: Turkish	
PRELIMINARY REQUIREMENTS: NONE	
<p><b>CONTENTS:</b>                  Communication, linguistics, language and language types                  Components of language                  Language theories                  Language acquisition                  Language proficiency                  The relationship between language and brain                  Midterm                  Relationship between mind and language development                  Language development in the age of 0-6, characteristics of Turkish language                  The relationship between language and society, definition of speech                  Components of speech, the importance of speech in human life, anatomy and physiology of speech                  Respiration, development of speech, production of famous and consonant sounds in Turkish speaking children                  Phonological processes in Turkish speaking children aged 3-9 years.                  Final examination</p>	
<p><b>EFFECTS OF EDUCATION PROCESS:</b> Understand the features of language and speech development                  Comprehend the order of acquisition of meaning, phonology, morphology and structural features of language.                  Recognize the ideal environments in which children can gain language and play an active role in creating these environments.</p>	

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LITERATURE (OPTIONAL):

TEACHING METHODS: Lecture,Discussion,Question and Answer,Demonstration

ASSESSMENT METHODS:

Mid-terms %40

Final examination %60

LECTURER (NAME, EMAIL CONTACT): ): Asist Prof. İclal ŞAN iclal.san@karatay.edu.tr

**Clinical Skills Development Course Code ODY 258**

FACULTY: School of Health Science (Audiology)	CLASS TYPE: Compulsory
NUMBER OF HOURS: 6/week	ECTS TYPE: 6
SEMESTER: 2	CLASS LEVEL: Bachelor's Degree
LANGUAGE OF INSTRUCTION: Turkish	
PRELIMINARY REQUIREMENTS: NONE	
<p>CONTENTS:</p> <ul style="list-style-type: none"> <li>Communication, linguistics, language and language types</li> <li>Components of language</li> <li>Language theories</li> <li>Language acquisition</li> <li>Language proficiency</li> <li>The relationship between language and brain</li> <li>Midterm</li> <li>Relationship between mind and language development</li> <li>Language development in the age of 0-6, characteristics of Turkish language</li> <li>The relationship between language and society, definition of speech</li> <li>Components of speech, the importance of speech in human life, anatomy and physiology of speech</li> <li>Respiration, development of speech, production of famous and consonant sounds in Turkish speaking children</li> <li>Phonological processes in Turkish speaking children aged 3-9 years.</li> <li>Final examination</li> </ul>	
<p>EFFECTS OF EDUCATION PROCESS:</p> <ul style="list-style-type: none"> <li>Understand the features of language and speech development</li> <li>Comprehend the order of acquisition of meaning, phonology, morphology and structural features of language.</li> </ul>	



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Recognize the ideal environments in which children can gain language and play an active role in creating these environments.

LITERATURE (OPTIONAL):

TEACHING METHODS: Lecture, Discussion, Question and Answer, Demonstration

ASSESSMENT METHODS:

Mid-terms %40

Final examination %60

LECTURER (NAME, EMAIL CONTACT): Asist. Prof. Burak ÖZTÜRK    burak.ozturk@karatay.edu.tr

**HISTOLOGY Course Code ODY 252**

FACULTY: School of Health Science (Audiology)	CLASS TYPE: Compulsory
NUMBER OF HOURS: 2/week	ECTS TYPE: 2
SEMESTER: 2	CLASS LEVEL: Bachelor's Degree
LANGUAGE OF INSTRUCTION: Turkish	
PRELIMINARY REQUIREMENTS: NONE	
<b>CONTENTS:</b> Cell and organelle structure Intercellular junction complexes, Cell division Cover Epitelli Epithelial secretion Connective tissue cells and fibrils Connective tissue types Blood Tissue Cartilage tissue Bone tissue Muscle tissue Nerve tissue An overview Discussion	
<b>EFFECTS OF EDUCATION PROCESS:</b> Understand the anatomical, physiological and histological structures and functions of basic tissues.	

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LITERATURE (OPTIONAL):

TEACHING METHODS: Lecture,Discussion,Question and Answer,Demonstration

ASSESSMENT METHODS:

Mid-terms %40

Final examination %60

LECTURER (NAME, EMAIL CONTACT): Prof.Birol ÖZKALP birol.ozkalp@karatay.edu.tr

**Course Name Audiological and Vestibular Interpretation and Diagnosis Course Code ODY 319**

FACULTY: School of Health Science (Audiology)	CLASS TYPE: Compulsory
NUMBER OF HOURS: 3/week	ECTS TYPE: 4
SEMESTER: 1	CLASS LEVEL: Bachelor's Degree
LANGUAGE OF INSTRUCTION: Turkish	
PRELIMINARY REQUIREMENTS: NONE	
<p><b>CONTENTS:</b></p> <ul style="list-style-type: none"> <li>Vestibular system and components</li> <li>Anatomy and physiology of vestibular system</li> <li>Vestibular system</li> <li>Eye movements and recording techniques</li> <li>Dizziness / dizzy patient clinical evaluation</li> <li>V / ENG tests</li> <li>VEMP, V-HIT</li> <li>Auditory brainstem responses: Stimulus parameters</li> <li>Auditory brainstem responses: Recording parameters</li> <li>Auditory brainstem responses: Individual pathological / non-pathological factors</li> <li>Auditory brainstem responses: test procedures</li> <li>Auditory brainstem responses: Analysis methods and clinical interpretation</li> </ul>	
<p><b>EFFECTS OF EDUCATION PROCESS:</b></p> <ul style="list-style-type: none"> <li>Understands the properties of the vestibular system. Distinguish vestibular system disorders and their underlying causes.</li> <li>Understands general and pathology specific measurement and evaluation methods in vestibular problems and applies them.</li> <li>Defines the clinical problems in the vestibular system and directs them to the relevant experts for solutions.</li> <li>Knows and applies auditory diagnostic test methods.</li> </ul>	

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Knows the importance of auditory diagnosis. Uses when necessary.  
Uses and interprets objective test methods in diagnosis  
Uses and interprets subjective test methods in diagnosis.  
Arranges the audiological test battery in accordance with the patient and makes the diagnosis with Cross-Check method.

LITERATURE (OPTIONAL):

TEACHING METHODS: Lecture,Discussion,Question and Answer,Demonstration

ASSESSMENT METHODS:

Mid-terms %40

Final examination %60

LECTURER (NAME, EMAIL CONTACT): Asist Prof. Burak ÖZTÜRK, burak.ozturk@karatay.edu.tr

**Course Name Central Auditory Processing Disorders Course Code ODY 329**

FACULTY: School of Health Science (Audiology)	CLASS TYPE: Compulsory
NUMBER OF HOURS: 3/week	ECTS TYPE: 5
SEMESTER: 1	CLASS LEVEL: Bachelor's Degree
LANGUAGE OF INSTRUCTION: Turkish	
PRELIMINARY REQUIREMENTS: NONE	
<p>CONTENTS: Auditory processing, central auditory processing                  Test batteries using anatomical structures for the processing of auditory information                  Definition of central auditory processing disorder (SBP)                  History, Incidence, Causes Concomitant disorders                  Characteristics of individuals with central auditory processing disorders                  Classification, evaluation principles, evaluation methods and techniques                  Radiological Pathology II                  Approach and rehabilitation of auditory processing disorders                  Approach and rehabilitation of auditory processing disorders                  Definition and pathophysiology / aetiology, incidence, characteristics of auditory neuropathy                  Definition and pathophysiology / aetiology, incidence, characteristics of auditory neuropathy                  Auditory processing and training, assessment and rehabilitation</p>	
<p>EFFECTS OF EDUCATION PROCESS: Auditory processing, central auditory processing, anatomical structures for the processing of auditory information, definition, history, incidence, accompanying disorders, characteristics, classification, evaluation principles, evaluation methods and techniques of individuals with central auditory processing disorders. , test batteries, approach and rehabilitation of auditory processing disorders, auditory processing and education, auditory neuropathy definition and pathophysiology / etiology, incidence, characteristics, evaluation and rehabilitation.</p>	

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LITERATURE (OPTIONAL):

TEACHING METHODS: Lecture,Discussion,Question and Answer,Demonstration

ASSESSMENT METHODS:

Mid-terms %40

Final examination %60

LECTURER (NAME, EMAIL CONTACT): ): Asist Prof. İclal ŞAN iclal.san@karatay.edu.tr

**Course Name Hearing Aid Selection and Application Principles Course Code ODY 339**

FACULTY: School of Health Science (Audiology)	CLASS TYPE: Compulsory
NUMBER OF HOURS: 4/week	ECTS TYPE: 5
SEMESTER: 1	CLASS LEVEL: Bachelor's Degree
LANGUAGE OF INSTRUCTION: Turkish	
PRELIMINARY REQUIREMENTS: NONE	
<b>CONTENTS:</b> What's hearing aid? History of hearing aids. Basic hearing aid components I Basic hearing aid components II Basic hearing aid components III Analog hearing aids, Modern hearing aids Working principles of hearing aids Ear Molds Types of hearing aids and their properties Limitation and sufficiency of hearing aids Selection of proper hearing aid for hearing loss I Selection of proper hearing aid for hearing loss II Selection of proper hearing aid for hearing loss III	
<b>EFFECTS OF EDUCATION PROCESS:</b> Gain knowledge and skills about hearing aid and assistive technology selection, application and adaptation. Uses the knowledge and skills gained in the field of hearing aids and assistive technologies in vocational and academic studies. The information he learns from different disciplines combines with the knowledge hearing devices and assistive technologies use to solve problems and make clinical decisions.	



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Develops the ability to participate in and present scientific research and project development work in the field of hearing aids and assistive technologies.

Improves the ability to comply with ethical values and rules in hearing aid and assistive technology.

Follows the academic publications and developments related to Hearing aid and assistive technology.

Develops knowledge and skills in contributing to the use of hearing aids and assistive technologies in the study of hearing health, education and awareness of the individual and the community.

LITERATURE (OPTIONAL):

TEACHING METHODS: Lecture, Discussion, Question and Answer, Demonstration

ASSESSMENT METHODS:

Mid-terms %40

Final examination %60

LECTURER (NAME, EMAIL CONTACT): ): Nedim Uğur KAYA nedim.ugur.kaya@karatay.edu.tr

VOCATIONAL SCHOOL OF HEALTHCARE SERVICES – KTO KARATAY UNIVERSITY

**Course Name Vestibular Rehabilitation Course Code ODY349**

FACULTY: School of Health Science (Audiology)	CLASS TYPE: Compulsory
NUMBER OF HOURS: 3/week	ECTS TYPE: 4
SEMESTER: 1	CLASS LEVEL: Bachelor's Degree
LANGUAGE OF INSTRUCTION: Turkish	
PRELIMINARY REQUIREMENTS: NONE	
<b>CONTENTS:</b> Overview of vestibular rehabilitation Vestibular Disorders and Postural Control Adaptation, Habituation and Displacement Theories Peripheral Vestibular Disorders and VR Central Vestibular Disorders and VDR BPPV-diagnosis and theories BPPV-Therapeutic Approaches BPPV-Therapeutic Approaches Vestibular Hypofunction and VR V-HIT Balance Disorders and Rehabilitation Vestibular disorders and therapeutic approaches in children	
<b>EFFECTS OF EDUCATION PROCESS:</b> Comprehends the principles of Vestibular Rehabilitation. Determines the therapeutic approach methods in disorders of vestibular system. Understands and applies special measurement and evaluation methods in Vestibular Rehabilitation Defines clinical problems during vestibular rehabilitation and guides them together for solutions	

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Applies postoperative measurements and evaluations.  
Has knowledge and skills about the follow-up of implanted patients.

LITERATURE (OPTIONAL):

TEACHING METHODS: Lecture,Discussion,Question and Answer,Demonstration

ASSESSMENT METHODS:

Mid-terms %40

Final examination %60

LECTURER (NAME, EMAIL CONTACT): ): Nedim Uğur KAYA nedim.ugur.kaya@karatay.edu.tr

VOCATIONAL SCHOOL OF HEALTHCARE SERVICES – KTO KARATAY UNIVERSITY

**Course Name Auditory (Re)Habilitation Practices Course Code ODY 318**

FACULTY: School of Health Science (Audiology)	CLASS TYPE: Compulsory
NUMBER OF HOURS: 4/week	ECTS TYPE: 4
SEMESTER: 2	CLASS LEVEL: Bachelor's Degree
LANGUAGE OF INSTRUCTION: Turkish	
PRELIMINARY REQUIREMENTS: NONE	
<b>CONTENTS:</b> Auditory Rehabilitation: The Basics Prevalence of hearing loss and its effects in terms of age Auditory implants and assistive hearing devices in terms of age Communication methods Evaluation for the auditory rehabilitation Approaches to auditory rehabilitation Approaches to auditory rehabilitation Approaches to auditory rehabilitation in pediatric population Activities for auditory rehabilitation in pediatric population Approaches to auditory rehabilitation in adult population Activities for auditory rehabilitation in adult population Approaches to auditory rehabilitation in elderly population	
<b>EFFECTS OF EDUCATION PROCESS:</b> Knows the normal stages of development in all development areas of the child. Interprets the results of the child's auditory perception and language development tests together with the audiological findings. Will be able to create individual auditory rehabilitation program. Identifies the materials and resources to be used in the individual auditory (re) habilitation program.	

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Will be able to implement the auditory (re) habilitation program by including the family and the close environment of the individual.  
Evaluates the acoustic and environmental situation of the child in school, home and workplace environments and make necessary interventions.  
Provides the necessary program and training consultancy to ensure the continuity of auditory rehabilitation.  
Directs the patient to the relevant department and provide the necessary information.

LITERATURE (OPTIONAL):

TEACHING METHODS: Lecture,Discussion,Question and Answer,Demonstration

ASSESSMENT METHODS:

Mid-terms %40

Final examination %60

LECTURER (NAME, EMAIL CONTACT): ): Asist Prof. İclal ŞAN iclal.san@karatay.edu.tr

**Course Name Cochlear implant selection and application principles Course Code ODY328**

FACULTY: School of Health Science (Audiology)	CLASS TYPE: Compulsory
NUMBER OF HOURS: 4/week	ECTS TYPE: 5
SEMESTER: 2	CLASS LEVEL: Bachelor's Degree
LANGUAGE OF INSTRUCTION: Turkish	
PRELIMINARY REQUIREMENTS: NONE	
<p>CONTENTS:</p> <ul style="list-style-type: none"> <li>Implant history</li> <li>Middle ear implant</li> <li>Cochlear implant parts and mechanism</li> <li>Selection criteria for cochlear implants</li> <li>Subjective methods used to evaluate cochlear implant</li> <li>Objective methods used to evaluate cochlear implant</li> <li>Brainstem implant</li> </ul>	
<p>EFFECTS OF EDUCATION PROCESS:</p> <ul style="list-style-type: none"> <li>Evaluates the appropriateness of auditory implants for candidates with hearing loss.</li> <li>Makes preoperative evaluation.</li> <li>Knows intraoperative measurements with cochlear implant.</li> <li>Applies postoperative measurements and evaluations.</li> <li>Has knowledge and skills about the follow-up of implanted patients.</li> </ul>	
LITERATURE (OPTIONAL):	
TEACHING METHODS: Lecture,Discussion,Question and Answer,Demonstration	

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**ASSESSMENT METHODS:**

Mid-terms %40

Final examination %60

**LECTURER (NAME, EMAIL CONTACT):** ): Nedim Uğur KAYA nedim.ugur.kaya@karatay.edu.tr

VOCATIONAL SCHOOL OF HEALTHCARE SERVICES – KTO KARATAY UNIVERSITY

**Course Name Special Topics in Audiology Course Code ODY 338**

FACULTY: School of Health Science (Audiology)	CLASS TYPE: Compulsory
NUMBER OF HOURS: 2/week	ECTS TYPE: 3
SEMESTER: 2	CLASS LEVEL: Bachelor's Degree
LANGUAGE OF INSTRUCTION: Turkish	
PRELIMINARY REQUIREMENTS: NONE	
CONTENTS: Audiology Science Audiology in Turkey Audiology in the World Audiologist and duties Special Topics in Audiology	
EFFECTS OF EDUCATION PROCESS: Knows Audiology Knows the importance of audiology sciences in Turkey and the world. Understands the cross check principle in audiology Knows the mechanisms of tinnitus. Follows up-to-date information in audiology. Combines existing knowledge and thinks holistically.	
LITERATURE (OPTIONAL):	
TEACHING METHODS: Lecture,Discussion,Question and Answer,Demonstration	



**VOCATIONAL SCHOOL OF HEALTHCARE SERVICES – KTO KARATAY UNIVERSITY**

**ASSESSMENT METHODS:**

Mid-terms %40

Final examination %60

**LECTURER (NAME, EMAIL CONTACT):** Asist. Prof. Burak ÖZTÜRK      burak.ozturk@karatay.edu.tr

VOCATIONAL SCHOOL OF HEALTHCARE SERVICES – KTO KARATAY UNIVERSITY

**Course Name Summer Internship Course Code ODY 348**

FACULTY: School of Health Science (Audiology)	CLASS TYPE: Compulsory
NUMBER OF HOURS: 8/week	ECTS TYPE: 6
SEMESTER: 2	CLASS LEVEL: Bachelor's Degree
LANGUAGE OF INSTRUCTION: Turkish	
PRELIMINARY REQUIREMENTS: NONE	
CONTENTS: Clinical Practice	
EFFECTS OF EDUCATION PROCESS: Under the supervision of the advisor; Define and apply audiological evaluation and approaches. Under the supervision of the consultant; Observes and applies the selection, application and evaluation of appropriate assessment methods. Under the supervision of the consultant; Observes interdisciplinary principles in audiology, Discusses audiometric results	
LITERATURE (OPTIONAL):	
TEACHING METHODS: Practical	
ASSESSMENT METHODS: Mid-terms %40 Final examination %60	
LECTURER (NAME, EMAIL CONTACT):	