

**Vocational School / Audiometry**  
**2024 - 2025 Academic Year**  
**ADVANCED TEST TECHNIQUES in AUDIOMETRY**  
**Syllabus**

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
ADVANCED TEST TECHNIQUES in AUDIOMETRY	ODY2217720	Spring Semester	2+2	3	5
<b>Prerequisites Courses</b>					
<b>Recommended Elective Courses</b>					
<b>Language of Instruction</b>	Turkish				
<b>Course Level</b>	Short Cycle (Associate's Degree)				
<b>Course Type</b>	Required				
<b>Course Coordinator</b>	Prof.Dr. Erol BELGİN				
<b>Name of Lecturer(s)</b>	Lect. Eda ÇEVİK				
<b>Assistant(s)</b>					
<b>Aim</b>	The aim of the course is to enable audiometrists who will work with physicians from different branches in the hospital environment and clinics to have the necessary dialogue and equipment for such environments and to gain practical skills in order to apply advanced audiological test techniques such as ABR and VNG.				
<b>Course Content</b>	This course contains; Hearing theories, Calibration of audiological equipment, Loudness discomfort level (LDL) test / Sensorineural Acuity Level (SAL) test / Bekesy audiometry, Wide band tympanometry / Reflex Decay Test / ETF tests, Recruitment / Short increment sensitivity index (SISI) test Tone decay test / Alternate binaural loudness balance (ABLB) and monaural loudness balance (MLB) tests, Otoacoustic emission (OAE) test, Electrophysiological tests (Basic principles), Electrophysiological tests ( ECoG / ABR / ASSR), Electrophysiological tests (Middle and Late latencies), Hearing scans test methods, Noise measurement, Auditory rehabilitation - I, Auditory rehabilitation - II, Speech recognition in noise and functional hearing loss.				
<b>Course Learning Outcomes</b>		<b>Teaching Methods</b>	<b>Assessment Methods</b>		
Explains the basic principles of auditory rehabilitation.		9	A		
Interprets suprathreshold tests.		9	A		
Students describe how SISI, ABLB, and MLB tests are performed.		9	A		
Summarizes how tone attenuation and reflex attenuation tests are performed.		9	A		
Interprets on how electrophysiological tests and OAE testing are performed.		9	A		
<b>Teaching Methods</b>	9: Lecture Method				
<b>Assessment Methods</b>	A: Traditional Written Exam				
<b>Lecture Schedule</b>					
<b>Sequence</b>	<b>Topics</b>	<b>Preliminary Preparation</b>			
1	Hearing theories	No preparation			
2	Calibration of audiological equipment	Preparation of the related subject from the recommended sources			
3	Loudness discomfort level (LDL) test / Sensorineural Acuity Level (SAL) test / Bekesy audiometry	Preparation of the related subject from the recommended sources			
4	Wide band tympanometry / Reflex Decay Test / ETF tests	Preparation of the related subject from the recommended sources			
5	Recruitment / Short increment sensitivity index (SISI) test Tone decay test / Alternate binaural loudness balance (ABLB) and monaural loudness balance (MLB) tests	Preparation of the related subject from the recommended sources			
6	Otoacoustic emission (OAE) test	Preparation of the related subject from the recommended sources			
7	Electrophysiological tests (Basic principles)	Preparation of the related subject from the recommended sources			
8	Electrophysiological tests ( ECoG / ABR / ASSR)	Preparation of the related subject from the recommended sources			
9	Electrophysiological tests (Middle and Late latencies)	Preparation of the related subject from the recommended sources			
10	Hearing scans test methods	Preparation of the related subject from the recommended sources			
11	Noise measurement	Preparation of the related subject from the recommended sources			
12	Auditory rehabilitation - I	Preparation of the related subject from the recommended sources			
13	Auditory rehabilitation - II	Preparation of the related subject from the recommended sources			
14	Speech recognition in noise and functional hearing loss	Preparation of the related subject from the recommended sources			
<b>Evaluation Methods</b>		<b>Weight(%)</b>			
Midterm Exam		40			
General Exam		60			

<b>Resources</b>	
Powerpoint presentations and word files 1) Otoloji ve Nöro-otoloji, Editör: Onur Çelik, Cilt 2, 2013.	
2) Kulak Burun Boğaz Hastalıkları ve Baş ve Boyun Cerrahisi, Editör: Onur Çelik, 2. Baskı, 2009.	
3) Temel Odyoloji 2.Baskı, Erol Belgin & A.Sanem Şahli, 2016	
4) Essential Otolaryngology, K.J. Lee (Türkçe çevirisi) 2004.	
5) Kulak Hastalıkları A. Necmettin Akyıldız, I - 1998 ve II - 2002.	
6) Textbook of Audiological Medicine: Clinical Aspects of Hearing and Balance.Linda M. Luxon, Joseph M. Furman, Informa Health Care 2003	
7) The Hearing Sciences. Teri A. Hamill, Lloyd L. Price, Plural Publishing, 2008.	
8) Kulak Burun Boğaz Hastalıkları ve Baş-Boyun Cerrahisi. Koç C. Güneş Kitabevi, 2004.	
9) İşitme Kaybının Testleri, Tanısı ve Tedavisi, Editör: M. Bülent Şerbetçioğlu, 2021y	