Tehran University of Medical Sciences

In the Name of God

Section I

Major: Audiology

Degree: M.Sc.

Introduction

The M.Sc. in Audiology provides a comprehensive study of the hearing and balance systems, their impairments, evaluations and managements as well. The admitted students will learn the theory and science underlying practical skills including but not limited to acoustics, psychoacoustic, the anatomy, physiology, neuroanatomy and neurophysiology of the auditory and balance mechanisms. The first year of the major provides the scientific background of auditory and balance mechanisms and an introduction to clinical skills. The second year gives a comprehensive training in all aspects of clinical practicum along with research methods in this field and completion a dissertation and oral defense.

Definition

The two-year M.Sc. in Audiology at the school of Rehabilitation of the Tehran University of Medical Sciences (TUMS) is apt for those students who wish to be expert audiologists for working at different clinical settings and research centers in the field.

The Aim of the Course

The aim of this course is to provide students with the necessary training to enter the profession of clinical audiology and research centers in the field. Hence, the aims of this program are as follows:

- Research activities that provide a scientific view in their practice.
- Familiarity with the new methods, equipment and techniques in prevention, evaluation and treatment.
- Obtaining required abilities for presenting educational services.

General Competencies

Graduates can perform the duties as an audiologist practitioner. After completion of this program successfully, the integration of skills, attitudes and knowledge will prepare the practitioners for professional activities such as:

- Maintaining professional and effective communication.
- Audiological assessment and examination of normal people and patients.
- Filing and data entry, audiological records and appropriate reports.
- Clinical decision making to solve the problem of patients.
- Selecting the appropriate approach to diagnosis and appropriate management and its implementation.
- Establishing the necessary coordination and referral and required Following-up .
- Managing of clinical, educational, hospital, industrial, and military hearing canters.
- Providing audiological prevention and hearing well-being services in different populations.

Eligibility

In order to be admitted to this program, a student needs to have completed the requirements for the Bachelor of Audiology, Bachelor of Speech pathology and Audiology or an equivalent qualification.

The Terms and Conditions of Admission to the Course

Based on the application forms, assessment of documents, and research and treatment background of applicants.

Educational Strategies, Methods and Techniques

The educational strategies, Methods and Techniques are composed of the below main issues:

- Task-based learning
- Problem-based learning
- Subject-directed learning
- Evidence-based learning
- Hospital-based learning
- Systematic learning

Student Assessment

Assessment methods:

- Written Exam
- Oral Exam
- OSCE (Objective Structure Clinical Exam)
- Logbook Assessment

The final assessment is in the form of an OSCE (Objective Structured Clinical Examination) method. An OSCE consists of a series of short tasks quasi-practical completed in exam conditions. All tasks are designed by expert practical audiologists, which have already been used as the basis for the clinical-based assessment process.

Number of Credits and Classification

- The minimum number of credits during a master's degree in audiology is 32. These credits include core (32 credits) and non-core (10 credits) courses. The Core credits include: theoretical credits (22), practical credits (3), clinical credits (3), and thesis credits (4). The non-core credits include: theoretical credits (9), and practical credits (1).
- According to the option of the department, students may also have to pass Medical Information Technology (1 credit) and Special English Language (2 credit).

Ethical Issues

The graduates should:

- Observe the Patient's Bill of Rights when working with the patients.
- Strictly observe Biosafety and Patient Safety Rules* concerning the patients, personnel and workplace.
- Observe the Rulebook for Dress Code.
- Strictly observe the Regulations of Working with the Laboratory Animals.
- Carefully preserve resources and equipment.
- Truly respect faculty members, staff, classmates and other students, and work for creating an intimate and respectful atmosphere.
- Observe social and professional ethical considerations in criticism.

* Biosafety and Patient Safety Rules will be set out by the Educational Departments and will be available to the students.

Section II

Core credits

Core course refers to courses that all students are required to take before they would be eligible to complete the MSc degree in audiology.

TEHRAN UNIVERSITY OF MEDICAL SCIENCES

The list of required courses

Code the course	Course	Number of Credits				Number of hours				Prerequisite
		Theoretical	Practical	Apprenticeship	Total	Theoretical	Practical	Apprenticeship	Total	
2	biostatistics	2	-	-	2	34	-	-	34	-
3	Research methods	1	1	-	2	17	34	-	51	-
4	Neuroscience of communication	3	-	-	3	51	-	-	51	-
5	Evaluation, Prescription & Fitting of Hearing Aids(Advanced)	1	1	-	2	17	34	-	51	-
6	Psycholinguistics	2	-	-	2	34	-	-	34	-
7	Methods of assessment and rehabilitation of balance system	3	-	-	3	51	-	-	51	4 or 17
8	Auditory conservation	2	-	-	2	34	-	-	34	-
9	Auditory rehabilitation in special populations	3	-	-	3	51	-	-	51	4 or 17
10	Electrophysiological tests of hearing	3	-	-	3	51	-	-	51	4 or 17
11	Optimization of acoustic spaces	2	-	-	2	34	-	-	34	-
12	assessment and rehabilitation of balance system	-	-	1	1	-	-	51	51	7
13	rehabilitation in special populations	-	-	1	1	-	-	51	51	9
14	Electrophysiological tests of hearing	-	-	1	1	-	-	51	51	10
15	Seminar	-	1	-	1	-	34	-	34	-
16	Thesis	-	-	-	4	-	-	-	-	-
Total		22	3	3	32	374	102	153	629	-

Non-core credits

Non-core course refers to courses that students may or may not require to complete if they already meet their criteria credits for completion of the MSc degree in audiology.

The list of elective-optional courses

Code the course	Course	Number of Credits			Number of hours			Prerequisite
		Theoretical	Practical	Total	Theoretical	Practical	Total	
17	Neuroanathomy and neurophysiology of hearing and balance	2	-	2	34	-	34	
18	Speech processing and perception	2	-	2	34	-	34	
19	Aural rehabilitation of children under 3-year-old	3	-	3	34	-	34	
20	Auditory screening in special populations	2	-	2	34	-	31	
21	Vestibular rehabilitation	1	1	2	17	34	51	4 or 17
Total		9	1	10	153	34	238	