



PROGRAMME SPECIFICATION
Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Programme Title & Code	MD degree of Audiology AUDI 600
(2) Final award/degree	MD Audiology
(3) Department (s)	ENT/ Audiology unit
(4) Coordinator	Prof. Dr/ Hesham Zaghloul
(5) External evaluator (s)	Prof. Dr/ Soha Mekki
(6) Date of approval by the Department's council	1-9-2016
(7) Date of last approval of programme specification by Faculty council	9/8/2016

(B) Professional information

(1) Programme Aims:

The broad aims of the Programme are as follows: (either to be written in items or as a paragraph)

The aim of this program is to provide the postgraduate student with the advanced medical knowledge and skills essential for the mastering of the practice of Audiology specialty through providing:

1. Recent scientific knowledge essential for the mastering of practice of Audiology according to the international standards
2. Leadership skills, problem solving strategies.
3. Clinical experience within department clinics as well as clinical sites outside the university.
4. Linking teaching with research
5. Active participation in community needs

(2) Intended Learning Outcomes (ILOs):

Intended learning outcomes (ILOs); Are four main categories: knowledge & understanding to be gained, intellectual qualities, professional/practical and transferable skills.

On successful completion of the programme, the candidate will be able to:

A- Knowledge and Understanding

By the end of the program, the Graduate should be able to:	
A1	Recognize recent advances in Anatomy ,embryology, physiology and pathophysiology of the peripheral and central auditory system
A 2	Recognize recent advances in anatomy ,embryology, physiology and pathophysiology of the peripheral and central vestibular system
A 3	Recognize the recent advances in rehabilitation of auditory (hearing aids, cochlear implants), vestibular disorders
A 4	Explain theories of hearing
A 5	Recognize the recent advances in nature and analysis of sounds
A6	Explain acoustics and psychoacoustic of different sounds.
A7	List hearing aids components
A7a	Explain instrumentation of evoked potentials and otoacoustic emissions
A7b	Recognize impedance probe and types of couplers
A8	Recognize spectrum of clinical symptomatology related to common Internal medicine disorders such as anaemias, diabetes mellitus and hypertension and thyroid disorders.
A 9	Recognize recent clinical symptomatology of psychiatric disorders and their relation to audiological disorders such as communication disorders, mental retardation and attention deficit hyperactive disorders.
A10	Enumerate causes of hemiplegia, mythenia and peripheral neuritis.
A 11	Recognize migraine, demyelinating disease and meningitis.
A12	Recognize History taking, causes, clinical picture, differential diagnosis of different neurological disorders
A13	Recognize recent advances in peripheral and central auditory systems evaluation

B- Intellectual skills

	By the end of the program the Graduate should be able to:
B1	Integrate basic anatomical and physiological knowledge with clinical data
B 2	Interpret data acquired through history taking to reach a provisional diagnosis for hearing, otological and balance disorders.
B3	Interpret the most important symptoms and signs of the most common medical disorders.
B 4	Analyze symptoms & signs of psychiatric abnormalities and interpret its meaning to the patient.
B 5.	Identify individuals at risk for hearing impairment
B6	Evaluate calibration of instruments
B7	Measure intensities of different sounds.
B8	Utilize scientific thinking in solving problems related to work and among rehabilitation team.
B9	Invent new technologies for rehabilitation
B10	Utilize scientific facts and theories to analyze and interpret practical data.
B11	Design and manage plan for management.
B12	Plan to improve performance in the field of Audiology
B13	Conduct research studies and criticize researches that add to knowledge.
B14	Enumerate causes of hemiplegia, mythenia and peripheral neuritis.

C- Professional/practical skills

By the end of the program the Graduate should be able to:	
C 1	Master the basic and modern professional clinical skills in the area of Audiology.
C 2	Perform proper general examination and identify normal and major abnormal physical signs.
C3	Perform basic and advanced audiological and vestibular evaluation
C4	Integrate the patient's symptomatology, historic data, abnormal physical signs and investigations into a comprehensive differential diagnosis of internal medicine and psychiatric disorders..
C5	Use properly calibrated instrumentation according to manufacturer's recommendations and specifications.
C6	Conduct researches
C 7	Integrate the patient's symptomatology, historic data, abnormal physical signs and investigations into a comprehensive differential diagnosis of neurological disorders.
C9	Identify different component of hearing aids
C10	Select & verify of hearing aids
C11	Fitting & programing of different hearing aids
C12	Identify different assistive listening devices
C13	Identify component & strategies of cochlear implants
C14	Select candidate for cochlear implants
C15	Mapping different cochlear implants

D- Communication & Transferable skills

By the end of the program the Graduate should be able to	
D1	Use different sources for information and knowledge.
D2	Lead team work.
D3	Manage time and prioritize work loads.
D4	Acquire self- and long life-learning
D 5	Use standard computer programs for statistical analysis effectively
D6	Teaching and evaluation skills as senior staff.

(3) Academic standards.

Academic standards for the programme are attached in [Appendix I](#). in which **NARS** issued by the National Authority for Quality Assurance & Accreditation in Education are used. External reference points/Benchmarks are attached in [Appendix II](#).

3.a- External reference points/benchmarks are selected to confirm the appropriateness of the objectives, ILOs and structure of assessment of the programme. (please list here the references and the website)

American Speech .Language Hearing Association
www.asha.org.

3.b- Comparison of the specification to the selected external reference/ benchmark. (E.g. all programme aims of the Benchmark are covered by the current programme)

- At least 85% programme aims of the Benchmark are covered by the current programme.
- Differ in that: Our program has Master thesis

(4) Curriculum structure and contents.

4.a- Duration of the programme (in years or months):

4.b- programme structure:

Candidates should fulfill a total of 60 credit hours

First part: 5

Second part: 25

Thesis: 15

Practical training: 15

(5) Programme courses.

First part

a- Compulsory courses: for 15 weeks

Course Title	Course Code	NO. of hours				Total teaching hours	Programme ILOs covered (REFERRING TO MATRIX)	
		Theoretical		Laboratory /practical	Field			Total Credit Hours
		Lectures	seminars					
Acoustics & psychoacoustic	AUDI 624 AP	1.5				1.5	22.5	A5,A6,B7, B10
Electronics	AUDI 624 EL	1.5				1.5	22.5	A7,A7a,A7b B6,B8
Applied Anatomy	AUDI 601	1				1	15	A1,A2,B1,
Applied Physiology	AUDI 603	1				1	15	A1,A2,A4, B1

b- Elective courses:

N/A

Second part

a- Compulsory courses: 60 weeks

Course Title	Course Code	NO. of hours				Total teaching hours	Programme ILOs covered (REFERRING TO MATRIX)	
		Theoretical		Laboratory /practical	Field			Total Credit hours
		Lectures	seminars					
Advanced Evaluation peripheral and Central Auditory and Vestibular systems	AUDI 624 AV	15		18		24	45	A1,A2,A13 B2,B12 B13,B5,C1,C2, C3,C4,C6,C7,C8, D1,D2,D3,D4,D5, D6
Advanced Auditory Rehabilitation, Hearing Aids and Cochlear Implants	AUDI 624 AR	8		8		12	240	A3, A7,B9,B11, B12,B13 C9,C10,C11,C12 C13,C14,C15, C6,D1, D2,D3,D4,
Internal Medicine	AUDI 610	1				1	15	A8,B3,
Thesis						15		

b- Elective courses:

Course Title	Course Code	NO. of hours				Total teaching hours	Programme ILOs covered (REFERRING TO MATRIX)	
		Theoretical		Laboratory /practical	Field			Total Credit Hours
		Lectures	seminars					
Psychiatry	AUDI 613	1				1	15	A9,B4
Neurology	AUDI 612	1				1	15	A10,A11, A12,B1 4

نظام الامتحان وتوزيع الدرجات
امتحان الجزء الاول

الدرجة		الاختبار	المقرر
MCQ	شفهي		
٢٠	٨٠	اختبار تحريري مدته ساعة واحدة	التشريح التطبيقي
٢٠	٨٠	اختبار تحريري مدته ساعة واحدة	الفسيولوجيا التطبيقية
٢٠	٨٠	اختبار تحريري مدته ساعة واحدة	الصوتيات
٢٠	٨٠	اختبار تحريري مدته ساعتين	الالكترونيات

الامتحان النهائي الشامل

اجمالي	الدرجة				الاختبار	المقرر
	أكلينيكي	شفهي	MCQ	تحريري		
٤٤٠	١٠٠	١٠٠	٤٨	٩٦ + ٩٦	اختباران تحريريان مدة كل منهما ثلاث ساعات + اختبار أكلينيكي + اختبار شفهي	تقييم جهاز السمع والاذن الطرفي و المركزي
٣٢٠	١٠٠	١٠٠	٢٤	٩٦	اختبار تحريري مدته ثلاث ساعات + اختبار شفهي	التاهيل والمعينات والقوقعة السمعية
٤٠			٨	٣٢	اختبار تحريري مدته ساعة	الباطنة العامة
٤٠			٨	٣	اختبار تحريري مدته ساعة	المقرر الاختياري

(6) Programme admission requirements.

● **General requirements:**

According to the faculty postgraduate by laws

● **Specific requirements (if applicable):**

N/A

(7) Regulations for progression and programme completion.

Student must complete minimum of 60 credit hours in order to obtain the M.D./Ph D. degree, which include the courses of first and second parts, thesis and activities of the log book.

- Registration for the MD/Ph.D thesis is allowed 6 months from the day of registration to the programme.

Log book fulfillment:

- Student must fulfill a minimum of 15 credits of log book activities including conferences attendance or speaking.
- Lectures and seminars of the previously described courses must be documented in the log book and signed by the lecturer.
- Any workshops, conferences and scientific meetings should be included in the log book.

(8) Evaluation of Programme's intended learning outcomes (ILOs):

Evaluator	Tools*	Sample size
Internal evaluator (s)		
External Evaluator (s)		
Senior student (s)		
Alumni		
Stakeholder (s)		
Others		

* TOOLS= QUESTIONNAIRE, INTERVIEW, WORKSHOP, COMMUNICATION, E_MAIL

We certify that all information required to deliver this programme is contained in the above specification and will be implemented. All course specification for this programme is in place.

Programme coordinator: Name:	Signature & date:
Dean: Name:	Signature & date:
Executive director of the quality assurance unit: Name:	Signature & date:

P.S. The programme specification should have attached to it all courses specifications for all courses listed in the matrix.