



## COURSE SPECIFICATION AUDIOLOGY FOR MDof Audiology

Faculty of Medicine- Mansoura University

### (A) Administrative information

(1) Programme offering the course.	MD Audiology
(2) Department offering the programme.	ENT department/ Audiology unit
(3) Department responsible for teaching the course.	Audiology unit
(4) Part of the programme.	Second part
(5) Date of approval by the Department's council	6-8-2016
(6) Date of last approval of programme specification by Faculty council	9/8/2016
(7) Course title.	Advanced Evaluation Peripheral and Central Auditory and Vestibular Systems
(8) Course code.	AUDI 624 AV
(9) Total teaching hours.	270 clinical + 225 theoretical = 495

## **(B) Professional information**

### **(1) Course Aims.**

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

The aim of this course 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

## **(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 course, the candidate will be able to:

### **A- Knowledge and Understanding**

By the end of the program, the Graduate should be able to:

A 1	Recognize basic audiological evaluation
A 2	Recognize different evoked potential and otoacoustic emissions
A4	Enumerate different causes of vestibular and central auditory disorders and methods of evaluation.

### **2- Intellectual activities (I)**

The Postgraduate Degree provides opportunities for candidates to achieve and demonstrate the following intellectual qualities:

### **B- Intellectual skills**

By the end of the program the Graduate should be able to:

B2	Interpret data acquired to reach a diagnosis for hearing, otological and balance disorders
B5	Identify individuals at risk for hearing impairment.
B12	Plan to improve performance in the field of Audiology.
B13	Conduct research studies and criticize researches that add to knowledge

### C- Professional/practical skills

By the end of the program the Graduate should be able to:

C1	Perform proper general examination and identify normal and major abnormal physical signs
C2	Perform basic and advanced audiological evaluation & Differentiate between cochlear & retrocochlear lesion
C3	Proper diagnosis of pediatric hearing disorders
C4	Perform & interpret short, middle and long latency auditory evoked potential
C5	Perform & interpret otoacoustic emissions
C6	Conduct researches
C7	Practice vestibular rehabilitation
C8	Practice different central tests battery

### 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
D5	Accessibility to specially-specific and other appropriate reference material in print or electronic format. Electronic medical literature databases with search capabilities
D6	Teaching and evaluation skills as senior staff.

(3) Course content:

Subjects	Lectures	Clinical	Laboratory	Field	Total Teaching Hours
<b><u>A. Basic audiological evaluation</u></b>					
• Pure tone audiometry	10	25			
• Speech audiometry.	8	15			
• Imittancemetry.	10	15			
• Masking.	10	15			
• Calibration	8	10			
• Retrocochlear lesions test battery	10	10			
• Pseudohypacusis	6	10			
• Pediatric evaluation	10	15			
<b><u>B. Evoked potential</u></b>					
• Basic principles and instrumentation.	10	8			
• Short latency potentials	14	20			
• Middle latency potentials.	4	4			
• Event related potentials	12	8			
• Facial neuronography & VEMPs	7				
• Otoacoustic emission.	12	12			

<p><b><u>C. Vestibular:</u></b></p> <ul style="list-style-type: none"> <li>• Physiology of vestibular system.</li> <li>• ENG</li> <li>• Rotatory chair.</li> <li>• Posturography&amp; other vestibular tests</li> <li>• Vestibular rehabilitation.</li> <li>• Peripheral vestibular disorders.</li> <li>• Medical &amp; surgical treatment of auditory &amp; vestibular disorders</li> </ul>	8 8 4 5 6 7 5	5 5 3  7 10 9			
<p><b><u>D. Central auditory disorders:</u></b></p> <ul style="list-style-type: none"> <li>• Neuroanatomy and neurophysiology.</li> <li>• Central auditory function evaluation.</li> <li>• Central auditory disorders.</li> <li>• Central auditory processing deficits in children.</li> <li>• Rehabilitation</li> </ul>	3 10 4 6 8	 18   18			
<p><b><u>E. Screening.</u></b></p>	5	20			
<p><b><u>F.Noise induced hearing loss</u></b></p>	5	8			
	225	270			495

**(4) Teaching methods:**

- 4.1: Lectures
- 4.2: Clinical practice
- 4.3: Discussions
- 4.4: Assignments.

**(5) Assessment methods:**

- 5.1: Written Exam to assess knowledge & intellectual skills
- 5.2: OSCE exam to assess Practical skills, intellectual skills and communications skills
- 5.3: Structured Oral Exams to assess knowledge

**Assessment schedule.**

Assessment 1: Written Exams Short essay Week: 76-78

Assessment 2: OSCE Exams Week 78-80

Assessment 3: Structured oral Exams Week 78-80

**Percentage of each assessment to the total mark.**

Written exam : 192 degrees

MCQ exam: 48 degrees

OSCE exam: 100 degrees

Structured oral exam: 100 degrees

**Other assessment without marks.**

Logbook to assess Practical skills

Research assignment to assess general transferable skills, intellectual skills.

**(6) References of the course:**

6.1: Hand books...

Hand book of clinical Audiology (Katz).

Introduction to Audiology (Martin)

Audiology diagnosis

**6.2: Text books:**

Auditory Brainstem Response (Jacobson).

Central auditory dysfunction (Bellis)

Valente (Hearing aids).

**6.3: Journals:** American Journal of Audiology

**6.1: Websites:**

- Audiology online
- ASHA
- ANSI

**(7) Facilities and resources mandatory for course completion.**

- a. Teaching places (teaching class, teaching halls, teaching laboratory).
- b. Teaching tools: including screens, computers including CD, data show, projectors, flip charts, white boards, video player, digital video camera, scanner, copier and laser printers.

**Course coordinator:**



**Head of the department.**

**Date:**

**P.S. This specification must be done for each course.**