



## COURSE SPECIFICATION

Faculty of Medicine- Mansoura University

### (A) Administrative information

(1) Programme offering the course.	Master of 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.	Basics for evaluation peripheral and central auditory and vestibular systems
(8) Course code.	AUDI 524 AV
(9) Total teaching hours.	300 clinical + 150 theoretical = 450

(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)

This course aims at providing participants with the knowledge and basic skills related to audiology specialty, as well as motivating them for research and positively changing their attitude to improve the outcome of the educational process.

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(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 study of Master Program in Audiology 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.
A7	Identify the high risk groups and select the screening tests pertinent to them.

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B- Intellectual skills

By the end of the study of Master Program in Audiology the Graduate should be able to:

B1	Integrate basic anatomical and physiological knowledge with clinical data.
B2	Interpret data acquired through history taking to reach a provisional diagnosis.
B3	Conduct a comprehensive examination and evaluation to reach diagnosis,
B4	Select the appropriate diagnostic procedures that help to reach the final diagnosis.
B5	Interpret results of evaluation to establish type and severity of the disorder.

C- Professional/practical skills

By the end of the study of Master Program in Audiology 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	Practice different vestibular testing
C7	Practice vestibular rehabilitation
C8	Practice different central tests battery
C16	Conduct researches

#### D- Communication & Transferable skills

By the end of the study of Master Program in Audiology the Graduate should be able to:

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<b>D 1</b>	Use standard computer programs for statistical analysis effectively.
<b>D 2</b>	Utilize computers in conducting researches
<b>D 3</b>	Analyze and interpret data.
<b>D 4</b>	Use different sources to obtain information and knowledge
<b>D 5</b>	Manage time and prioritize work loads.
<b>D6</b>	Think independently, set tasks and solve problems on scientific basis.
<b>D7</b>	Work in teams effectively.
<b>D8</b>	Collaborate and communicate with others positively.
<b>D9</b>	Acquire self- and long life-learning.
<b>D 10</b>	Use different sources to obtain information and knowledge
<b>D 11</b>	Acquire self- and long life-learning.

5)Course content.

Subjects	Lectures	Clinical	Laboratory	Field	Total Teaching Hours
<b><u>A. Basic audiologic evaluation:</u></b>					
Pure tone audiometry	5	45			
Speech audiometry.	4	18			
Immittancemetry.	8	18			
Masking.	6	18			
Calibration.	4	5			
Retrocochlear lesions test battery	3	9			
Pseudohypacusis	3	5			
Pediatric evaluation	6	15			
<b><u>B. Evoked potentials</u></b>					
• Basic principles and instrumentation.	4	5			
• Short latency potentials.	7	24			
• Middle latency potentials.	4				
• Event related potentials.	8	5			
• Facial neuronography, vestibular evoked myogenic potential	7				
	8	20			
• Otoacoustic emission.					

<b><u>C. Vestibular:</u></b>					
• Physiology of vestibular system.	6				
• ENG	4	5			
• Rotatory chair.	4	5			
• Posturography & other vestibular tests	4	5			
• Vestibular rehabilitation.	5	5			
• Vestibular rehabilitation.	7	15			
• Peripheral and central vestibular disorders		15			
• Medical and surgical treatment of vestibular & auditory disorders	4	10			
<b><u>D. Central auditory disorders:</u></b>					
• Neuroanatomy and neurophysiology.	6				
• Central auditory function evaluation.	10	<b>12</b>			
• Central auditory disorders.	4	<b>12</b>			
• Central auditory processing deficits in children.	5	<b>12</b>			
• <b>Rehabilitation</b>	5	<b>7</b>			
<b><u>E.Screening.</u></b>	5	5			
<b><u>F .Noise induced hearing loss and age related hearing loss.</u></b>	5	5			
	150	300			450

**(3) Teaching methods.**

4.1: Lectures.

4.2 Clinical lessons.

4.3 Assignments.

4.4 Attending and participating in scientific conferences, workshops and thesis discussion to acquire the general and transferable skills needed.

**(4) Assessment methods.**

5.1: Written Exam to assess knowledge & intellectual skills

5.2: MCQ Exam to assess knowledge & intellectual skills

5.3: OSCE Exam to assess Practical skills, intellectual skills & communication

5.4: Structured oral Exams to assess knowledge, intellectual skills & communication

**Assessment schedule.**

Assessment 1: Written Exam Week: 56-58

Assessment 2: MCQ Exam week: 56-58

Assessment 2: OSCE Exam Week 58-60

Assessment 3 : Structured oral Exam Week 58-60

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

Written exam: 240 degree

MCQ exam: 60 degree

OSCE exam: 150 degree

Structured oral exam: 150 degree

**Other assessment without marks:**

Logbook to assess Practical skills.

Research assignment to assess general transferable skills, intellectual skills.

**(5) References of the course.**

6.1. Hand books:

Handbook of balance function testing, (Jacobson)

Introduction to Audiology (Martin).

6.2. Text books:

Clinical Handbook of Audiology (Katz).

Valente (Hearing aids).

Terris Bellis (central)

6.3. Journals: American Journal of Audiology

6.1. Websites:

- Audiology online
- ASHA
- ANSI

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

- Teaching places (teaching class, teaching halls, teaching laboratory).
- 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.