



**COURSE SPECIFICATION ELECTRONICS
for MD AUDIOLOGY**

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Programme offering the course.	MD Audiology
(2) Department offering the programme.	ENT/ Audiology unit
(3) Department responsible for teaching the course.	Audiology unit
(4) Part of the programme.	First 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.	Electronics
(8) Course code.	AUDI 624 EL
(9) Total teaching hours.	22.5

(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 Electronics specialty through providing:

1. Recent scientific knowledge essential for the mastering of practice of Electronics
2. according to the international standards
3. Leadership skills, problem solving strategies.
4. Clinical experience within department clinics as well as clinical sites outside the university.
5. 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:

A7	List hearing aids components
A7a	Explain instrumentation of evoked potentials and otoacoustic emissions
A7b	Recognize impedance probe and types of couplers

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:

B6	Evaluate calibration of instruments
B9	Invent new technologies for rehabilitation

(3) Course content:

Subjects	Lectures	Clinical	Laboratory	Field	Total Teaching Hours
Hearing aid components:					
Microphones.	1.5				
Amplifiers.	2				
Receiver	2				
Instrumentation of evoked potentials	2.5				
Otoacoustic emission probe	2.5				
Room acoustics	1.5				
Impedence probe	2.5				
Calibration	1.5				
Transducers	1.5				
Types of Couplers	1.5				
Sound level meter	1.5				
Audiometers	1.5				
	22.5				22.5

(4) Teaching methods:

4.1: Lectures

4.2: Lab

4.3: Assignments.

(5) Assessment methods:

5.1: Written Exam Short essay to assess knowledge & intellectual skills

5.2: MCQ Short essay to assess knowledge & intellectual skills

Assessment schedule:

Assessment 1: Written Exams Week: 18-20

Assessment 2: MCQ Exam Week: 18-20

Percentage of each Assessment to the total mark.

Written Exams 80 degree

MCQ Exam 20 degree

(6) References of the course:

6.1: Hand books.

Fundamental of hearing

Audiology diagnosis

6.2: Text books.

Bases of hearing science

Katz

6.3: Journals

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.