



**COURSE SPECIFICATION of PHYSIOLOGY 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.	Physiology departement
(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.	Applied Physiology
(8) Course code.	AUDI 603

(9) Total teaching hours.	15
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**(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 physiology specialty through providing:

1. Recent scientific knowledge essential for the mastery of practice of physiology 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:

A1	Recognize recent advances in physiology and pathophysiology of the peripheral and central auditory system
A2	Recognize recent advances in physiology and pathophysiology of the peripheral and central vestibular system.
A4.	Explain theories of hearing

### B- Intellectual skills

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

B1	Integrate basic physiological knowledge with clinical data
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(3)

Subjects	Lectures	Clinical	Laboratory	Field	Total Teaching Hours
A. Physiology of hearing: External ear function.  Middle ear: <ul style="list-style-type: none"><li>• Contents.</li><li>• Function, impedance transformer action.</li><li>• Acoustic reflex.</li></ul> Inner ear: <ul style="list-style-type: none"><li>• Mechanisms of bone conduction.</li><li>• Function of cochlea.</li><li>• Cochlear fluids.</li><li>• Cochlear hair cells.</li></ul> Theories of hearing	2   1 1 1  1 1 1 1  2				
Physiology of vestibular system: Orientation and function of vestibular system.  Vestibuloocular reflex. Vestibulospinal reflex. Vestibulocolic reflex. Nystagmus.	1  1. 0.5 0.5 1				

					15

**(4) Teaching methods:**

4.1: lectures

4.2: Assignments

**(5) Assessment methods:**

5.1: Written Exam to assess knowledge & intellectual skills

5.2: MCQ Exam to assess knowledge & intellectual skills

**Assessment schedule:**

Assessment 1: Written Exams                      Week: 18-20

Assessment 2: MCQ Exams                      Week: 18-20

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

Written exam: 80 degree

MCQ exam: 20 degree

**Other assessment without marks:**

Research assignment to assess general transferable skills, intellectual skills  
Attendance & absenteeism

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

6.1: Hand books: Audiology diagnosis

6.2: Text books: Glyton AC, Hall JE textbook of medical physiology, 11th ed. Saunders 2006

6.3: Journals: American journal of physiology.

6.1: Websites: Google.com

**(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.**