Quality Assurance Unit

Tanta University
Faculty of Medicine

Department of Medical Physiology

Course specifications

Medical Physiology for Audiology Master degree First Part

2016/2017

Medical Physiology for Audiology Master Degree Course specifications

University: Tanta Faculty: Medicine Department: Medical Physiology

A- Administrative Information

- **Program title: Medical Physiology for Audiology Master degree**
- **Department offering the program : Audiology**
- **Departments responsible for the program: Medical Physiology& Audiology**
- **Course Code: ENT 800AUD2**
- **Academic year/ Level : 2016 /2017**
- **No. of Credit/taught hours: 1 theoretical credit hour (1 hour/week for 15 weeks)**
- **Authorization date of course specification: / /**

B- Professional Information

1- Overall Course aims:

The aim of this course is to:

- Help the postgraduate students to achieve adequate level of both basic and advanced essential knowledge about established and evolving topics concerned with Medical Physiology related to their speciality.
- Acquire knowledge to address, demonstrate, and practice positive attitudes that will help them to achieve medical research on scientific bases

2- Intended learning outcomes (ILOs):

a. knowledge and understanding:

At the end of the course the graduate should be able to:

a.1. Recognize basic theory and principle of Medical Physiology that help them to understand human disease regarding etiology, diagnosis and control.

a.2. Identify the Normal functions of the auditory system with basic knowledge of concept in the physics of sound.

a.3. Identify basic defects in physiological control mechanisms that result in disease state.

a.4. Express knowledge of human Medical Physiology including methods and procedures in evaluating the auditory system.

b. Intellectual skills:

At the end of the course the graduate should be able to:

b.1. Analyze appropriate professional attitudes and behaviors in different practice situations.

b.2. Practice presentation skills , and evidence based scientific discussion

d.General transferable skills:

At the end of the course the candidate will be able to:

d.1. Communicate effectively with his colleagues and scientific institutes.
d.2. Use the basic computer skills which serve his career development
d.3. Apply self evaluation and specify his medical educational needs.
d.4. Use different learning resources to get knowledge and information.
d.5. Manage time and practice team working through collaboration with other specialties
d.6. Apply continuous medical education

3- Course contents:

Course title	topic	No. of credit hours	No of Credit points	Remarks
Medical Physiology	Audiology	3½ hs (1for Medical Physiology)	10½ points (3for Medical Physiology)	Co-requisite with statistics.

Detailed contents of the course topics: (Syllabus contents):

General topics

Week No.	topic
1-	1- Hemostasis, anticoagulants and hemorrhagic disorders.
2-	2- pain, pain analgesia system 3- Homeostasis and Ca++ homeostasis
3-	4- Arterial Blood Pressure and pathophysiological basis of hypertension.
4-	5- chemical transmitters of ANS.
5-	6- Hemorrhage and shock.
6-	7- Heart rate and its regulation
7-	8- Control of diameter of arterioles
8-	9- Supra- renal cortical hormones and disorders 10- Hormones regulating glucose metabolism.(Diabetes mellitus: PathoMedical Physiology and its complications
9-	11- ABO system, Rh factor, Blood transfusion and its incompatibility. 12- Regulation of body water and electrolytes.
10-	13- Acid – Base balance and disorders 14- Hypoxia and cyanosis
11-	15- Erythropoiesis , Anemia and Polycyathemia. 16- Cardiac reserve
12-	17- Thermoregulation & Clinical aspects of thermoregulation 18- Cardiac Output
13-	19- Cellular mechanism of hormonal actions

	20- Edema

Related specialty systems.

1. All topics of hearing.
2. Speech and its disorders.
3. Non auditory membranous labyrinth.

Related specialty topics.

1. Auditory neuroscience.
2. Impedence maching by ossicular system.
3. Hearing abnormalities, central auditory mechanism.
4. Function of the brain in language input, output & disturbance.

4- Teaching and learning methods:

4.1 Illustrated lectures.

4.2 Tutorial is scheduled and previously announced special topics from the curriculum are discussed in the tutorial.

4.3 Assignment to be prepared by the graduate in one of the special topic taught.

4.4 Seminars scheduled and previously announced to facilitate selection identification of their thesis.

- Each teaching method is designed to serve different educational goal, and together they provide an appropriate stimulating atmosphere for learning.

5- Student Assessment:

End semester final examination consists of:

5.1. Final written consists of one paper, 3 hours. With the co-requisite subjects The written is divided into 3 parts part1 short questions in the form (state, mention, explain compare define etc). The 2nd part in problem solving question the 3rd part is MCQ questions to assess (a.1, a.2, a.3, a.4).

5.2. Oral to assess (a.1, a.2, a.3, a.4 & b.1, d2,d3,d4,d5,d6)

6- Assessment schedule:

6.1. End Semester Final written qualifying examination	At the end of the semester (60% of the total mark)
6.2. oral qualifying examination	After the written (40% of the total mark)

7- Weighing of assessments:

Grading system for End Semester written Exam:

Grade	%	Code	CGPA points

Excelent	95% or more	A	4.000
	90% to less than 95%	A-	3.666
Very Good	85% to less than 90%	B+	3.333
	80% to less than 85%	B	3.000
Good	75% to less than 80%	B-	2.666
	70% to less than 75%	C+	2.333
Satisfactory	65% to less than 70%	C	2.000
	60% to less than 65%	C-	1,666
Failed	55% to less than 60%	D+	1.333
	30% to less than 55%	D	1.000
	Less than 30%	F	0.000

Final comprehensive exam

Final exam	Final written	Final oral	Total
Final comprehensive exam of Medical Physiology & statistics	45 (60%)	30 (40%)	75

- Final written examination consists of one paper, 3 hour s. With the co-requisite statistics
- Oral examination by two examiners

8- List of references:

8.1. Essential books (Textbooks):

- Guyton &Hall textbook of Human Medical Physiology and Mechanisms of Disease.
- Gannon (review of medical Medical Physiology).
- Vander's human Medical Physiology.

8.2. Recommended books:

- Applied Medical Physiology in intensive care by M.R. Pinsky (Editor), J. Mancebo (Editor), L. Brochard (Editor), Gran Hedenstierna 2009.
- An introduction to human disease: pathology & pathoMedical Physiology correlations by Leonard Crowley. Hardcover August 2009.
- Critical pathways in cardiovascular medicine: Second Edition Lippincott Williams & Wilkins.
- Applied Medical Physiology: A manual showing functions of the various organs in disease by Frederich Augustus Rhodes.

8.3. Periodicals, Web:

- www.tebawy.5u.com.
- http://bcs.whfreeman.com.
- http://www.bpcc.edu/sciencealliedhealth/humanMedical Physiologylinks.htmlhttp://bio–alive.com/animations/Medical Physiology.htm.
- Human Medical Physiology from cell to system By: Lauralee Sherwood.

9- Other resources/ facilities required for teaching and learning to achieve the above ILOs:

- All facilities required for teaching are available.

10- We certify that all of the information required to deliver this course is contained in the above specifications and will be implemented.

We verify that the above course and the analysis of students and external evaluator opinions are accurate.

Course coordinator and head of department
name……..signature……Date……

Head of quality assurance unit:
name……..signature……Date……