



COURSE SPECIFICATION

Applied Physiology related to Cardiology

Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Programme offering the course.	MD degree of cardiovascular medicine
(2) Department offering the programme.	Cardiology Department
(3) Department responsible for teaching the course.	Physiology Department
(4) Part of the programme.	1st Part
(5) Date of approval by the Department's council	24-5-2016
(6) Date of last approval of programme specification by Faculty council	9-8-2016
(7) Course title.	Applied Physiology related to Cardiology
(8) Course code.	CAD 614 AP
(9) Total teaching hours.	37.5 hours (Lectures & Seminars)
(10) Credit hours	2.5 Credit Hours

(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)

1- To provide the student with the basic and updated knowledge of cardiovascular physiology.

(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

A1- Illustrate and explain the applied physiologic basics of the cardiovascular system related to cardiac properties, cardiovascular reflexes, cardiac receptors, blood pressure control, physiologic regulation of body fluid and blood coagulation and homeostasis, lipoprotein metabolism and coronary blood flow and microcirculation

B- Intellectual skills

B1- Apply the facts of physiology which are appropriate to clinical diagnosis and management of cardiovascular diagnosis.

(3) Course content:

Subjects	Lectures	Seminars	Total Teaching Hours
Cardiac Functions contraction and relaxations .	2	1.5	3.5
Heart rate control and variability &CV.	1	1	2
Cardiac receptors and cell signaling.	2	1	3
Ion channels .	2	1	3
Cardiac potential and physiology conducting system.	2	1	3
Arterial resistance compliance and pulse wave velocity.	2		2
Cardiac output and its control.	2		2
Blood pressure control and variability .	1	1	2

Body Fluid regulation.	1		1
Coronary blood flow.	2	1	3
Coronary microcirculation	1		1
Endothelial function.	2		2
Pulmonary circulation.	2		2
Cardiovascular response to stress.	1		1
Lipoprotein metabolism.	2		2
Blood coagulation physiology.	2		2
Platelets function	2		2
CV response to Aging.	1		1
Total Teaching Hours	30	7.5	37.5

(4) Teaching methods:

4.1 : Lectures 4.2 : Seminars

(5) Assessment methods:

5.1: Written. (for assessment of knowledge skills)

5.2: MCQ. (for assessment of knowledge and intellectual skills)

Assessment schedule:

1-First Exam : MCQ at end of semester

2-Final Exam at end of course:

Written exam

Percentage of each Assessment to the total mark:

1- MCQ Exam 20 of total mark

2- Written exam marks 80 of total mark

Total Marks 100

(6) References of the course:

6.1: Hand books: Member-Ship of physiology Department Student Book

6.2: Text books: Text of Cardiovascular physiology

6.3: Journals:

- New England journal of medicine

- Journal of the American Collage of Physiology

6.1: Websites:

- Cardiosource - Medscape cardiology

- Escardio.org European society of Cardiology - Tctmed.com

(7) Facilities and resources mandatory for course completion:

Lecture Room .

Course coordinator: Prof. Dr Eid Dawood

Prof Dr Sherif Sakr

Head of the department: Prof Dr AbdelRazek Maaty

Date: 8/6/2016