COURSE SPECIFICATION

Physiology Related to Chest Medicine

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Programme offering the course:	**Master degree of chest medicine**
(2) Department offering the programme:	Chest Medicine Department
(3) Department responsible for teaching the course:	Physiology Department
(4) Part of the programme:	First Part
(5) Date of approval by the Department`s council	**15-3-2016**
(6) Date of last approval of programme specification by Faculty council	9-8-2016
(7) Course title:	**Physiology Related to chest medicine**
(8) Course code:	**1st part: CHEST 503**
(9) Credit hours: (10) Total teaching hours:	0.5 credit hour 7.5

(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)

1- To provide knowledge &understanding of the scientific principle of the physiology of respiratory system and pulmonary function tests, homeostasis and acid base balance.

(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- Recognize the mechanism of respiration
A2- recognizes oxygen and carbon dioxide transport in blood
A3- recognizes regulation of respiration, abnormal breathing pattern and factor affecting pulmonary ventilation
A4- Explain effect of high pressures on gases
A5- Explain pathophysiology of pneumothorax
A6- Explain metabolic functions of the lung
A7- Explain coagulation pathways and mechanism of different anticoagulant drugs
A8- Explain pulmonary circulation and pathogenesis of pulmonary edema
A9- recognize the importance of acid base balance and its clinical application
A10- Explain both sympathetic and parasympathetic ANS and their role in pathogenesis of chest diseases

B- Intellectual skills

B1- able to diagnose restrictive and obstructive airway diseases from pulmonary function test **B2- able to interpret arterial blood gases** **B3-able to select anticoagulant drugs based on the patient condition**

C- Professional/practical skills

Professional/practical skills are none required

D- Communication & Transferable skills

none required

(3) Course content:

Subjects	Lectures
- **Mechanics of respiration** - **Pulmonary ventilation and factors affecting** - **Gas exchange through the respiratory membranes** - **Pulmonary function tests** - **Respiratory function of blood** - **Regulation of respiration** - **Hypoxia-cyanosis-dyspnea** - **Pneumothorax** - **Abnormal patterns of breathing** - **Effect of high pressure of gases**	3

Subjects	Lectures
- Metabolic function of the lung	
- Acid-base balance	**1**
- Pulmonary circulation **- Pulmonary oedema**	**1.5**
- Anticoagulants	**1**
- Sympathetic **- Parasympathetic**	**1**
Total teaching hours	**7.5**

(4) Teaching methods:

4.1: lectures,

4.2: directed and self directed learning activities

(5) Assessment methods:

Assessment schedule:

Assessment 1: Written exam after one semester of registration

Assessment 2: Oral exam

Assessment 3: MCQ at the end of the semester (15 weeks)

Assessment 4: Logbook

Percentage of each Assessment to the total mark:

MCQ exam: 18

Written exam: 72

Oral exam: 60

Total: 150

(6) References of the course:

- 6.1: Hand books:
- 6.2: Text books

(7) Facilities and resources mandatory for course completion:

Teaching rooms and Pulmonary function tests

Course coordinator:
Dr. Dina Aboelkhair, Lecturer of chest medicine
Dr. Heba Wagih, Assistant lecturer of chest medicine
Head of the department: Prof. Mohamad khairy
Date: 31-1-2015