



## COURSE SPECIFICATION

### Faculty of Medicine– Mansoura University

#### (A) Administrative information

(1) Programme offering the course:	Master degree in Medical Physiology
(2) Department offering the programme:	درجة بيئية
(3) Department responsible for teaching the course:	درجة بيئية
(4) Part of the programme:	First part
(5) Date of approval by the Department's council	10/10/2016
(6) Date of last approval of programme specification by Faculty council	12/ 7/2016
(7) Course title:	Physiology
(8) Course code:	<b>Phys 503</b>
(9) Total teaching hours:	7.5 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)

To enable students to understand basic facts about aviations which enable him to master the physiological responses of body systems to high altiude. Also, to develop skills related to physiological experimental work.

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## (2) Intended Learning Outcomes (ILOs).

On successful completion of the course, the candidate will be able to:

### A- Knowledge and Understanding

**A1:** Discuss the physiological principles and role of each of body systems in Hemostats , Homeostasis , as regard electrolyte balance – water balance – acid base balance thermal balance and glucose homeostasis.

**A2:** explain the underlying pathophysiological mechanisms of the emergency medical and surgical problems.

### B- Intellectual skills

**B1:** solve problem based exercise on physiological basis.

**B2:** choose the suitable diagnostic techniques concerning the emergency problem.

**B3:** interpret the clinical and laboratory findings to reach the proper diagnosis.

**B4:** design guidelines for a control for particular disease

## (3) course content.

<b>Applied physiology</b>	<b>EM 503</b>	<b>1/2</b>	<b>7.5</b>
-pain sensation and motor cortex			<b>(1.5 hour)</b>
-Functions of A.N.S, nerve block and neuromuscular transmission			<b>(1 hour )</b>
-Gastric secretion and vomiting			<b>(1 hour)</b>
- Regulation of ABP, coronary and cerebral circulation .			<b>(1 hour)</b>
-Pulmonary ventilation and abnormal breathing.			<b>(1 hour)</b>
-Homeostasis and fibrinolysis.			<b>(1hour)</b>
- Tissue fluid formation and edema and shock			<b>(1 hour)</b>

**(4) Teaching methods.**

<b>Method</b>	<b>ILOS covered by this method</b>
4.1. Lectures	

**(5) Assessment methods.**

<b>Tools</b>	<b>Marks</b>	<b>Percentage of the total mark</b>	<b>ILOS assessed by the exam.</b>	<b>schedule</b>
5.1:MCQ exam	15	20%		2 <sup>nd</sup> week of Jan / July
5.1:written exam	60	80%		2 <sup>nd</sup> week of Jan / July
<b>Total marks</b>	75			

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

6.1. **Hand books:** Staff member books & lecture notes.

6.2. **Textbooks:** Guyton Medical Physiology, Ganong Physiology

**(7) Facilities and resources mandatory for course completion:**

**1- Attendance Criteria:**

Minimum acceptance attendance in each course is 75%

**2- Assessment tool:**

Minimum percentage accepted is 60% of total marks

**Course coordinator:** Dr. Mohamed Adel

**Head of the department:** Dr. Sabry Mohammed Awad Gad